

CANADA

REPORT

OF THE

MINISTER OF PUBLIC WORKS

ON THE

WORKS UNDER HIS CONTROL

FOR THE

FISCAL YEAR ENDED MARCH 31

1922

Submitted in Accordance with the Provisions of Chapter 39, Section 34,
of the Revised Statutes of Canada

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OTTAWA
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1922

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*To General His Excellency the Right Honourable Lord Byng of Vimy, G.C.B.,
G.C.M.G., M.V.O., Governor General and Commander in Chief of the Dominion
of Canada.*

I have the honour to lay before Your Excellency the Report of the Department
of Public Works of Canada, for the fiscal year ended March 31, 1922.

I have the honour to be, sir

Your Excellency's most obedient servant,

J. H. KING,

Minister of Public Works.

OTTAWA, November 10, 1922.

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CHIEF ENGINEER.

GENERAL SUPERINTENDENT OF TELEGRAPHS.

COLLECTOR OF REVENUE

CHIEF ACCOUNTANT.

LAW BRANCH.

NATIONAL GALLERY.

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REPORT

OF THE

DEPUTY MINISTER OF PUBLIC WORKS

FOR THE

FISCAL YEAR ENDED MARCH 31, 1922

DEPARTMENT OF PUBLIC WORKS, CANADA

OTTAWA, October 20, 1922.

Honourable J. H. KING, M.D.,
Minister of Public Works,
Ottawa, Ont.

SIR,—I have the honour to submit the report of the Department of Public Works for the fiscal year ended March 31, 1922.

EXPENDITURE

The total expenditure incurred by the department during the fiscal year 1921-22, on its various works of construction, maintenance and operation amounted to the sum of \$17,939,494.27, of which the sum of \$798,526.94, is charged to demobilization.

The details of this outlay may be classified as follows:—

Harbour and river works..	\$ 6,142,156 79
Dredging, plant, etc..	1,211,582 40
Roads and bridges..	596,192 70
Public buildings..	7,401,221 70
Telegraphs..	1,024,116 11
Miscellaneous..	765,697 63
	<hr/>
	\$17,140,967 33
Demobilization..	798,526 94
	<hr/>
	\$17,939,494 27

As compared with the total for last year, there is a reduction of \$3,031,180.04, accounted for by reduced expenditure in all services with the exception of roads and bridges where the increase of \$399,983.57 is caused by the construction of a bridge at Banff on the Bow river; an international bridge at Edmundston, N.B., and a new Bascule bridge at Burlington Channel, Ont.

REVENUE

The revenue for the year amounted to the sum of \$696,219.88 and is made up as follows:—

Graving docks.	\$112,193 55
Rents.	111,111 30
Telegraphs.	290,131 34
Casual revenue	180,690 69
Ferries.	2,093 00
	<hr/>
	\$696,219 88

The decrease in revenue as compared with last year amounts to \$28,909.42, notwithstanding an increase of \$47,275.40 from graving docks. The greatest loss in revenue is from telegraph lines, amounting to \$40,339.09, which is referred to under the subhead "Telegraphs."

The decrease of \$17,036.90 in rents would appear larger were it not for an item of \$24,890.06 due but unpaid last year which is included in this year's revenue statement. The general decrease is accounted for by reduced revenue from so-called sundry rents.

The casual revenue varies, and the amount of \$180,690.69 collected in the present fiscal year, as compared with \$199,582.85 in 1921, is made up of receipts from sales of property, \$24,000; earnings of dredges and plant, \$31,800; contributions from provinces and local authorities towards cost of works, such as interprovincial bridges, \$102,300; refunds, \$9,300; slides and booms, an overdue account, \$6,170, and minor items aggregating about \$7,000.

HARBOUR AND RIVER WORKS

The total expenditure in this branch was \$6,142,156.79, which is \$1,399,510.71 less than last year's outlay.

The following is a list of works which have been completed during the year:—

Nova Scotia.—Bass River, wharf; Soldier's Cove, wharf.

New Brunswick.—Lord's Cove, wharf.

Prince Edward Island.—North Lake, boat harbour.

Quebec.—Champlain dry dock at Lauzon.

Ontario.—Maclaren's Landing, wharf; Milford Bay, wharf acquired and rebuilt; Sparrow Lake, wharf.

British Columbia.—Boswell, float; Carroll's Landing, float; Courtenay, new wharf; Ioco, wharf.

To replace wharves that had been so damaged or decayed that they were no longer serviceable, the following were built in British Columbia: Alice Arm, Cowichan Bay, Gabriola Island, Ganges, Kincolith, Ladysmith, Manson's Landing, Squirrel Cove, and a new pier head to the wharf at Barnstone Island.

The following works were under contract, but unfinished at the end of the fiscal year:—

New Brunswick.—Black's Harbour, pier head; Courtenay Bay works.

Quebec.—Anse aux Gascons, breakwater; Gaspé, wharf renewal; Notre Dame des Sept Douleurs, wharf extension.

Ontario.—Fort William, breakwater; Port Arthur, breakwater; Toronto, harbour improvements; Toronto Island, breakwater.

British Columbia.—Steveston Jetty, third section; Esquimalt dry dock (new).

DREDGING

The sum expended under this heading amounted to \$1,211,582.40, which is \$244,600.50 less than the outlay of the previous year.

During the year, shipments by water were well maintained, and especially was this apparent in the eastern movement of grain on the Great Lakes. As far as possible, the department met the demands for dredging necessary to restore and maintain the required depths and widths in harbours and channels. While prices of labour and material were generally well maintained, such reductions as took place are reflected in the cost of various works.

Only such works as were of urgent importance in the public interest were considered, and a number of units of departmental plant were consequently not in commission. By leasing some of these units to private firms considerable revenue was derived, and at the same time valuable units of plant were well maintained at no cost to the department, but will be available for service when the demands of water borne commerce for further harbour improvement warrant their being again commissioned.

Construction was commenced on one small dredge for use in improving the channel of the La Biche river for accommodation of shipping on the lake of that name, in Alberta. Three dredges, two tugs and eight scows, which had outlived their usefulness, were disposed of.

Valuable assistance was rendered to the city of New Westminster, B.C., whose water supply was cut off by the disastrous floods in the Lower Fraser Valley, by dredge *Fruhling*, which stood by for some months as a fire-boat. Assistance was rendered as occasion necessitated to vessels in distress.

Special reports to the number of eighty-six were forwarded to the Departments of Marine and Fisheries and of the Naval Service covering works of dredging performed during the season, so that mariners might be kept acquainted by means of alterations of charts and Notices to Mariners with such work as has been accomplished.

In the further interest of efficiency, various departments of the Government which had knowledge of a special nature relating to problems presented to this department, have been consulted to considerable advantage.

Dredging operations were carried on at the following places, where an expenditure of \$10,000 or over was made:—

Nova Scotia.—Glace Bay, Liverpool, St-Peter's Narrows, Shenacadie, Sydney and Yarmouth.

New Brunswick.—Bathurst, Campbellton, Miramichi River and St. John (Sand Point).

Prince Edward Island.—Charlottetown and Murray River.

Quebec.—Batiscan, Harricanaw River and Rimouski.

Ontario.—Belleville, Goderich, Kingston, Kingsville, Port Burwell, Port Stanley and Sault Ste-Marie.

Manitoba.—Big George Island, Le Pas and Red River.

British Columbia.—Fraser River, Kootenay Landing, Skeena River and Victoria Harbour. On the Fraser River, extensive dredging was performed at Nicomen, Steveston Jetty and Woodward's Slough.

FERRIES

Until 1918, the Department of Inland Revenue had the control and management of the collection of excise duties, internal taxes, standard weights and measures, and the collection of bridge and ferry tolls and of rents.

13 GEORGE V, A. 1923

By Order in Council of May 18, 1918, the Department of Inland Revenue was amalgamated with that of Customs, and by Order in Council dated June 3, 1918, the administration of the gas, electric light and weights and measures inspection Act; the adulteration of foods, patent medicines, etc., was transferred to the Department of Trade and Commerce, and on the rearrangement and transfer of duties in the public service an Order in Council was issued on June 3, 1918, transferring the administration of the Ferries Act (Chap. 108, R. S. 1906) from the Department of Inland Revenue to the Department of Public Works.

The transfer to this department was made on July 22, 1918, and the statement submitted showed an amount due on that date of \$3,061.12, and to the end of the fiscal year 1919, a further sum of \$423 accrued, making a total of \$3,484.12 due, of which \$1,635.50 was paid within the year, leaving a balance of \$1,848.62, which amount is still unpaid.

The tolls accrued during the present fiscal year amount to \$2,092 from nineteen licenses issued; one ferry paying \$1,530, one \$130, another \$100, while the others grade down from \$75 to \$1 a year.

A ferry being a local convenience is not intended to be a revenue producer; the issuing of licenses being rather for the purpose of regulating these services and it is the invariable practice of the department to consult the municipalities concerned with regard to the rates to be charged for ferriage.

PUBLIC BUILDINGS

The sum expended on the construction, maintenance and repair of public buildings throughout the Dominion, exclusive of military hospitals and buildings, was \$7,401,221.70, which is \$1,042,670.50 less than the outlay of last year. Of this amount \$2,289,787.92 was expended on the construction and improvement of public buildings, and \$5,111,433.78 in repairs and maintenance.

The following buildings were completed during the year:—

Ontario.—Kingston, Educational Block, and Toronto, Postal Station "A."

Alberta.—High River, Air Station.

British Columbia.—Bamfield, Post Office, Customs and Telegraph Office.

The following buildings were still under contract at the close of the fiscal year:—

New Brunswick.—Partridge Island, power-house.

Ontario.—Parliament Buildings at Ottawa

MILITARY BUILDINGS

New Brunswick.—Jordan Sanitorium, heating system overhauled and improved.

Quebec.—At Ste. Anne de Bellevue alterations were made to pavilions and dormitories, incinerator installed and improvements made to plumbing, etc.

Ontario.—Brant Hospital, Burlington, damage by fire made good at No. 8 Cottage, and drainage, refrigerator plant, heating system, etc., improved.

Westminster Hospital, London, grounds were graded and lighted, incinerator installed, heating improved and fire protection extended.

Orthopaedic Hospital, Toronto, the first floor of the limb factory was renewed, electric fans were installed and heating improved.

Manitoba.—Tuxedo Hospital, Winnipeg, the heating system was overhauled.

British Columbia.—Shaughnessy Hospital at Vancouver: Alterations made to the Vocational School for conversion into a Nurses' Home, and heating and electric lighting systems installed.

At Victoria, Works Point, a military office building was reconstructed.

LEASES

The cost of maintaining the public buildings seems to be large, but it should be borne in mind that this is not all expended on Government-owned buildings, since the sum of \$1,062,789.76 was paid out during the past fiscal year on rental of buildings or parts of buildings occupied by different departments.

More than one-half of the total amount was paid for accommodation required for the public service in the city of Ottawa, and the following table shows the number of leases in force and the rentals paid in each province:—

	No. of leases in force	Rents paid in fiscal year 1922
Nova Scotia..	23	\$ 7,796 15
Prince Edward Island..	3	473 25
New Brunswick..	18	7,411 24
Quebec..	66	67,472 79
Ottawa..	64	689,726 53
Ontario..	95	87,512 55
Manitoba..	39	36,707 19
Saskatchewan..	44	33,428 20
Alberta..	52	80,099 14
British Columbia..	52	52,162 72
	<hr/> 456	<hr/> \$1,062,789 76 <hr/>

RECONSTRUCTION OF PARLIAMENT BUILDINGS, OTTAWA

As Parliament was sitting at the beginning of the fiscal year, construction work in the interior of the building was practically stopped. However, work in the stone shops, carpenter shop, modelling and wrought iron workers' shop, was proceeded with.

The following is a detailed report of the progress made during the year:—

Exterior Masonry.—Work of erection of the Main Tower was continued to its present height of approximately 153 feet and was closed down on October 26, and a temporary roof erected thereon. All granite sidewalks around the building and granite steps to all entrances and ramp around the Main Tower have been completed.

Interior Masonry and Marble Work.—The groined ceiling in the Hall of Honour, between the north and south corridors, was completed and all the stone bosses carved. The stone bosses in the Hall of Honour, between the north corridor and in cross passages between the Hall of Honour and the Commons Reading Room and Railway Committee Room have been carved, as well as the stone bosses above the north corridor on the third floor.

All the stonework and marble floors in the Main Entrance Hall were erected and completed, excepting the pointing, and the ceiling above the mezzanine floor plastered. Stonework in the Ante Room, between the Main Entrance Hall at third floor level and the Memorial Chamber in the Main Tower was completed, but designs for the floor of the Ante Room were not received from the architect so that it was not laid.

Stonework, marble steps and floor to entrance from the front door under the Tower to Main Entrance rotunda were set. The main floor was also set and completed with the exception of the carving on the bosses in the ceiling, etc.

Stone wall linings and marble steps to stairs at east end of north corridor from the ground to the third floor were erected and completed, also to stair at the east end of the south corridor from the ground to the fifth floor, and stonework and marble landings to stair at the north end of the cross corridor west of the Senate Chamber, were completed.

The granite shaft to the large Memorial window on the west side of the Hall of Honour near the Library was removed and a Tyndall stone screen added to the lower portion of the window and the column was again set above the screen.

Stone and marble work on the ground floor at the Post Office, etc., under the Main Entrance Hall, was erected and completed. All plastering in the Post Office working space north of the Main Entrance Hall has been completed.

Terra cotta floor arches to rooms on the fourth floor over the Main Entrance Hall and to Main Entrance have been installed and cement finish floors in rooms on the fourth floor have been completed.

Interior Woodwork.—The woodwork in the Senate Chamber was completed by the sub-contractors, and the carved cresting above the panelling on the side walls and carved figures at ends of cresting were executed and work in the Senate Chamber was fully completed and ready for the Session of 1922.

New doors were laid in vestibules in Pavilion rooms on main, third, fourth and fifth floors.

Rooms 258 and 259 on the main floor, off the south corridor, have been converted into a Smoking Room for the Senate. Oak panelling, beamed ceiling, etc., was carried out under contract and work fully completed for the Session of 1922.

Stair Balustrades and Handrails.—The balustrade to stairs at east end of both north and south corridors and stair No. 3, south corridor east part, as well as stair at west end of north corridor, have been erected. The balustrade to stair at north end of cross corridor, west of the Senate Chamber, was also erected. This completes the installation of all the balustrades throughout the building.

Bronze and Ironwork.—The bronze revolving doors to Commons and Senate Entrances, also revolving doors at Post Office, have been erected.

Exterior doors.—Teak wood doors for Main Entrance under Tower have been installed.

Floor Covering.—All rubber and linoleum floor covering throughout the building has been laid.

Decorating.—Decorations in the Commons Smoking Room, Opposition Caucus Room on the fourth floor, and Government Caucus Room on the main floor, have been completed.

General.—Labour conditions during the past year have been very good. There was a plentiful supply of all classes of labour. The rates paid have been as authorized by the department; a new schedule being received in June last showing a decrease of 10 cents per hour for the majority of labour.

The average daily force employed by the general contractors and the sub-contractors during the year has been 344.

During the year, six meetings of the Advisory Board and three meetings of the Joint Parliamentary Committee were held.

The general contractors, with the approval of the Board and the committee, have entered into the following sub-contracts during the fiscal year 1921-22:—

On May 3, 1921, authority was given to enter into a contract with the Wallace Sandstone Quarries, Limited, Montreal, Que., for Tyndall limestone, at \$9,600;

On April 14, 1921, authority was given to enter into a contract with Messrs. Campbell and Williams, of Bell's Corners, Ont., for Nepean sandstone, at \$2,450;

On July 14, 1921, authority was given to enter into a contract with the Wallace Sandstone Quarries, Limited, Montreal, Que., for Wallace sandstone for the tower, at \$2,400;

On July 14, 1921, authority was given to enter into a contract with the Robert Mitchell Company, Limited, Montreal, Que., for bronze revolving doors for post office entrance, at \$3,400;

On August 25, 1921, authority was given to enter into a contract with the Bromsgrove Guild (Canada) Limited, Montreal, Que., for interior woodwork for the Senate Smoking Room, at \$6,300;

SESSIONAL PAPER No. 31

On August 2, 1921, authority was given to enter into a contract with Messrs. Campbell & Williams, of Bell's Corners, Ont., for Nepean sandstone for the tower, at \$5,945;

On October 5, 1921, authority was given to enter into a contract with the Wallace Sandstone Quarries, Limited, Montreal, Que., for Tyndall limestone for interior and tower stairs, at \$9,600.

In addition to the above, the following orders have been placed through the Architects' Office, with the consent of the committee:—

On December 5, 1921, an order was placed with the Architectural Bronze and Iron Works for bronze vestibule doors for main entrance, at \$4,120.

FURNITURE

Chairs—

Owen Sound Chair Company, Owen Sound, Ont..	\$20,674 00
R. A. Sproule & Son, Ottawa.. . . .	17,301 50

Desks and Tables—

Interior Hardwood Co., Kitchener, Ont..	5,740 00
R. A. Sproule & Son, Ottawa.. . . .	5,978 00
Jas. Ogilvy's, Limited, Montreal, Que.. . . .	480 00
Preston Furniture Co., Preston, Ont.. . . .	530 70

Special Tables in Reading Rooms, Lobbies, etc.—

Jas. Ogilvy's, Limited, Montreal, Que.. . . .	1,435 90
Bromsgrove Guild (Canada), Limited, Montreal, Que.. . .	1,900 00
R. A. Sproule & Son, Ottawa.. . . .	450 00

Bookcases, Newspaper Racks, Dining Room Furniture—

Jas. Ogilvy's, Limited, Montreal, Que.. . . .	881 40
Bromsgrove Guild (Canada), Limited, Montreal, Que.. . .	6,805 00
Interior Harwood Co., Kitchener, Ont.. . . .	6,572 00
" " " (screen).. . . .	275 00

Private Dining Room Furniture—

Henry Morgan & Co., Montreal, Que.. . . .	1,005 00
Jas. Ogilvy's, Limited, Montreal, Que.. . . .	960 15
Castle & Sons, Reg'd., Montreal, Que.. . . .	375 00
Baetz Bros. & Co., Kitchener, Ont.. . . .	540 00
Preston Furniture Company, Preston, Ont.. . . .	937 40

Upholstered Furniture—

Castle & Sons, Reg'd., Montreal, Que.. . . .	16,934 00
F. E. Coombe & Co., Kincardine, Ont.. . . .	3,120 00
Bromsgrove Guild (Canada), Limited, Montreal, Que.. . .	340 00
H. Krug & Company, Kitchener, Ont.. . . .	850 00

Complete Suites for Special Rooms—

Castle & Sons, Reg'd., Montreal, Que.. . . .	18,157 00
Bromsgrove Guild (Canada), Limited, Montreal, Que.. . .	3,970 63
Henry Morgan & Co., Limited, Montreal, Que.. . . .	497 50
H. Krug & Co., Kitchener, Ont.. . . .	15,900 00

Curtains—

Curtains were ordered to the extent of.. . . .	4,503 30
From various firms for the more important rooms in the building.	

The following orders were placed through the Purchasing Commission of Canada:—

Desks, Tables and Hat Trees—

Office Specialty Manufacturing Co., Ltd., Ottawa.. . . .	\$58,650 00
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Revolving and Tilting Arm Chairs—

Knechtel Furniture Co., Ltd., Hanover, Ont.. . . .	28,800 00
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TELEGRAPHS

At the close of the present fiscal year, the pole mileage was 11,388½, the wire mileage 14,038½, and cable 360¾, with 1,298 offices.

The messages sent during the year aggregated 548,181, as compared with 636,471 for the preceding year, a decrease of 88,290 messages.

The expenditure on construction, repairs and maintenance was \$1,024,116.11, as against \$1,083,242.05 in the previous year, a decrease of \$59,125.94.

The revenue shows a decrease of \$40,339.09 under that of 1920-21, the major portion of which occurred in connection with the Ashcroft-Dawson line, and the Alberta lines, which went behind \$25,022.58 and \$11,230.79 respectively. The population of the Yukon is decreasing and a falling-off of business for that reason must be expected; while in Alberta, the lines of the commercial companies have encroached on the territory formerly served by the Government lines, decreasing their usefulness to such an extent that lengthy stretches will soon be entirely abandoned.

NATIONAL GALLERY

Last year's report contained a short review of the progress made since the Gallery was founded in 1880, but this year has been the most important in its history. The new premises, as described in the report for 1921, were opened to the public on September 12, 1921, and during the six months to the end of the fiscal year the records show that there were 75,000 visitors to the Gallery.

In the month of October, immediately after the opening, the Sunday afternoon attendance was 18,753, but this figure dropped to about 8,000 in May following. The total of 40,573 Sunday visitors represents about forty per cent of the 106,693, which is the calendar year's record from the date of opening.

Very few art centres, in proportion to population, can equal this attendance which is a gratifying indication of the interest taken in art by the citizens of Ottawa.

Four special exhibitions were held in the Gallery between December 20, 1921, and March 31, 1922.

The policy established a few years ago of making loans for exhibition was continued, and eighteen Canadian cities and towns were so favoured.

They were: Halifax, N.S.; Montreal, P.Q.; Ottawa, Toronto, Hamilton, Welland, Tillsonburg, London, Sarnia, Collingwood, Port Arthur and Fort William, Ont.; Winnipeg, Man.; Regina and Moose Jaw, Sask.; Medicine Hat, Alta., and New Westminster and Vancouver, B.C.

During the fiscal year, twenty-two oil paintings, three water colours and pastels, and one piece of sculpture were purchased; two paintings and one bronze acquired by gift, and three oil paintings, one water colour and a statuette from diploma works, in addition to one hundred and forty-four original prints and fourteen hundred and thirty-nine reproductions that were added to the collection. A detailed description of the numerous acquisitions will be found in the report of the Trustees of the National Gallery, which is included in the latter part of this volume.

Appended to this report will be found detailed statements from the different branches, giving full particulars of the various works carried out by the department during the year.

I have the honour to be, sir,

Your obedient servant,

J. B. HUNTER,
Deputy Minister.

PUBLIC BUILDINGS

By R. C. WRIGHT, Chief Architect

NOVA SCOTIA

ANNAPOLIS ROYAL

Public Building.—The interior fitting for the post office and the Customs offices, including brass grilles, were installed.

The construction work referred to in the previous year's report has been fully completed.

AMHERST

Drill Hall.—A contract was awarded November 24, 1921, for the grading, paving, gutters, drains, etc., at the drill hall to Messrs. N. & M. Deskallino. The work consists of waterproofing the outside walls around the basements, placing of weeping tile drains below the foundations, building of three catch-basins and a new 12-inch drain at the rear of the building connecting with the city sewer.

The grounds around the building were graded and a reinforced driveway, with concrete gutters and sidewalks built, and the grounds seeded to complete the outside work.

HALIFAX

Rockhead Hospital.—The old tracoma detention hospital with the new addition built for the military has been put in thorough repair regarding plumbing, heating and lighting, and equipped with beds and fitted as an Emergency Hospital for immigration purposes.

LAWLOR'S ISLAND

Quarantine Building.—A contract was awarded to The Trask Artesian Company, Ltd., January 5, 1922, for sinking an artesian well and the necessary work required in connection with the supply of fresh water.

Boiler House.—Supply and installation of steam boilers, feed pump and heating system to bath house and disinfecting building.

Additions to Bath House and Disinfecting Building.—A new wing was built to the disinfecting building size 16 by 60 feet, frame walls, 2 by 6-inch studs, sheeted inside and outside with matched sheeting, papered and shingled; tar and gravel roof.

The disinfector was built inside this building, the construction of the walls and rafters 2 by 4 material. Inside was sheeted with matched lumber and then covered with galvanized iron, outside covered with V-joint, all walls filled with sawdust. All floors in the disinfecting building and disinfector are of concrete.

A new covered-way, 10 feet by 70, was built to this building, supported on 6 by 6 posts and plates 2 by 6, rafters covered with matched lumber and shingled. Concrete floor.

A new bath house, 18 feet by 64, was constructed, foundation laid on piles. Concrete floor in bath-house, 2 by 4 walls, 2 by 6 rafters. Exterior walls covered with matched lumber and shingles. Interior walls felt paper and V-joint sheeting. In this

bath-house and the old part is erected twenty-four steel shower baths, four water closets, and one wash basin. Hot and cold water pipes are laid in these buildings. Two copper ventilators were put into the bath-house and finished with cowl top above roof. All buildings are steam heated and painted inside and outside.

First-class Detention.—Originally this building was used for first-class detention and has been divided into two residences for the staff of the Quarantine Station. Each dwelling contains three bedrooms, bath-room, dining-room and kitchen. All old partitions were taken out and new V-joint partition built to conform to the plans. The joist in parts was found to be rotten and replaced by new material.

A new steam heating boiler was installed and the building heated with steam throughout, and supplied with hot and cold water from a jacket heater, newly wired for electric lighting, and the interior woodwork (including floors) and the exterior received three coats of paint.

The drainage system empties into septic tank and the liquid passes into the water.

Materials were purchased and all work (except plumbing and heating) was done by day labour.

Third-class Detention.—Two new bath-rooms were equipped with four lavatories and two washtubs. Kitchen was supplied with large enamel sink. The bath-rooms and kitchen are fully equipped with hot and cold water from a jacket heater.

The foundation of the latrines of this building were found to be in a bad state of repair. These were replaced with new concrete walls. The exterior of the latrines received three coats of paint.

The drainage is wasted in the ravine.

Auxiliary Detention (formerly German Hospital).—The plans called for the removal of all old partitions in this building and new V-joint partitions built to suit the requirements.

In the main part are two dormitories for sixteen beds. Attached to each dormitory are fully equipped toilet and wash-rooms. Each toilet is equipped with two lavatories, two water closets and two washtubs. There are dining and recreation rooms and large kitchen.

The plumbing fixtures are equipped with hot and cold water from jacket heater. This building was wired for electric lighting. On each end, two new storm vestibules were built. A fully equipped system of drains is attached to this building.

Smallpox Unit.—There are three buildings in this unit; two are used as hospitals with capacity for eight beds. The centre building is for the staff of the hospital.

All old partitions were removed and new sheeted partitions built to conform to the plans.

From each hospital building to the Administration building covered ways are built, bath-rooms are provided in each unit. Each bath-room is equipped with one bath tub, two basins and one water closet. On the administration building two bay windows were built and new front door and vestibule were put in. This whole unit was wired for electric lighting and equipped with hot and cold water from jacket heater. A system of septic tanks takes care of the drainage.

LIVERPOOL

Public Building.—A new brick addition 29 by 13 feet, consisting of ground floor and basement, was added to the working space of the post office, with mail entrance, concrete platform and steps. Storage for coal under.

The basement floor is of concrete, walls of brick, external face of pressed brick, cut stone copings, window sills and heads.

Materials were furnished and work done by day labour.

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TRURO

Site for Proposed Public Building.—In the house, on the property purchased for a site of a proposed public building a new hot air furnace, with pipes and registers and a smoke-pipe were installed complete.

YARMOUTH

Public Building.—A contract was awarded January 7, 1921, for the supply and installation of post office fittings.

Two light standards and wiring for meter on standards, also electric lights on fittings.

The construction work referred to in the previous year's report has been fully completed.

The land and building purchased in 1911, known as the Bingay Block, which comprised a three-story brick building immediately adjoining the public building with the land which consists of lot 22 and southerly 6 feet of lot 23, having a total frontage of 30 feet on the east side of Main street by a depth of 140 feet 4 inches, with a right of way over the easterly 20 feet, was sold on March 28, 1922, to Benjamin Franklin Trask, druggist, Yarmouth, N.S., for and in consideration of the payment of \$7,700.

PRINCE EDWARD ISLAND

Repairs, alterations and improvements were made to the public buildings at Charlottetown, Georgetown, Montague, Summerside and Tignish.

NEW BRUNSWICK

ST. JOHN

New Post Office.—Along the rear of the lot on Canterbury street a concrete sidewalk was laid the entire length of the lot and a fencing of concrete posts and iron pipe railings enclosing the lot was constructed. A concrete walk was also run from the sidewalk on the street to the rear entrance to the post office.

PARTRIDGE ISLAND

Quarantine Station.—A contract was awarded September 21, 1921, to Messrs. Kane & Parker, for the erection of a power disinfecting and bath-house.

The work consisted of a two-story brick and terra cotta building, 78 by 94 feet.

On the first floor are situated a large retort chamber holding two retorts for disinfecting purposes, a boiler-room with oil burning boiler and pump; an engine-room with 37½ horse power oil-engine and generator for providing electric power to the island; foundation for a future duplicate engine; bath-rooms, waiting lobbies, etc. The second floor is divided into waiting rooms, bunk rooms, fan room and offices.

The first floor is of reinforced concrete where supported on concrete columns, the remainder is of concrete on rock fill. Partitions on first floor are of brick; the second floor is of wood construction with stud partitions, and the roof over all is of tar and gravel.

The building is heated by steam radiators and wired for electricity.

A large steel storage tank 16 feet in diameter by 10 feet high is erected alongside the building for storing oil to supply boiler.

This work is well advanced towards completion and will be ready for the coming season.

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A contract was awarded October 18, 1921, to Messrs. W. A. Munro & Sons for extensive repairs, alterations and additions to the various buildings.

The new work consisted of a large new verandah balcony and conservatory for the medical officer's house, the conservatory being provided with steam radiators.

Four new standpipes with hose attached were provided for first-class detention building as fire protection.

A new coal house was built in the rear of the second-class detention building; new benches and tables were also provided for this building.

A storage tank for water was erected in the third-class detention building and connected to the various fittings.

Excavation under basement at third-class detention building was made and exterior addition to provide additional coal storage.

Addition to the north side of the third-class detention building commenced last year as reported was completed this year.

A porch and coal shed were erected on the south side of the quarantine auxiliary building and the old structure removed.

The other work in this contract consisted of repairs and repainting where required.

QUEBEC

GRANBY

Public Building.—Work described in the last year's report has been fully completed.

Supply and installation of new post office fittings, including brass box and drawer fronts, brass grilles and brass nameplates.

GROSSE ISLE

Quarantine Station.—The various works were performed by day labour, with the exception of the following items for which tenders were accepted:—

Repairs to roof of power-house and dynamo building.

Removal of a bath-room at the Anglican chaplain's parsonage.

Providing 213 double windows for first and second-class passengers detention buildings.

Plumbing, galvanized iron, ventilators, etc.

Installation of hot-water heating in residence of assistant superintendent.

QUEBEC

Arrival of Lord Byng.—Special works have been carried out at the King's wharf, on the occasion of the arrival of Lord Byng, August 11, 1921.

Contracts were awarded for the construction of an arch and a walk, setting up decorations, renting of flowers, plants, etc., at the King's wharf, also for decorating the general post office.

Generally.—Extensive repairs were made to the public buildings at Coaticook, Farnham, Iberville, Magog, Sherbrooke, Rivière du Loup, Ste. Thérèse and Trois Rivières.

ONTARIO

ALEXANDRIA

Public Building.—For the public's safety taking down portions of standing brick walls on Main and St. Catherine streets that were considered dangerous and erecting a board fence. Work was done by day labour.

KINGSTON

Royal Military College

Educational Block.—After being completed, a contract was awarded to McKelvey & Birch, Limited, on April 22, 1921, for the installation of laboratory and interior fittings.

Riding School.—A contract was awarded to T. S. Scott, September 13, 1921, for grading, paving roads, etc., in connection with the riding school.

KITCHENER

Public Building.—The alterations made in offices consisted of changes to post office fittings and enlargement and rearrangement of the Customs long-room and Inland Revenue Department.

A parcel of land from the rear boundary was dedicated to form a public lane behind the business premises of the Main street.

OTTAWA

The Union station was decorated on the occasion of the departure of the Duke of Devonshire, Governor General, from Canada.

On the arrival of Lord Byng of Viny in Ottawa, a suitable platform was erected on Parliament Hill, grounds and the lawns were decorated. The anniversary of Armistice day was commemorated by the erection of a Pylon so constructed to be available for use in other years.

Grounds.—A new service drain was installed to the West Block departmental building.

Wellington Street Pavement.—A contract was awarded for relaying of pavement on Wellington street from Bank street westerly to the Old Perley Home on October 19, 1921, to Messrs, O'Leary, Ltd., Ottawa.

The centre of the street comprising the section occupied by the tramway rails only had to be re-paved.

The old concrete was all removed, ties and rails lifted and excavation made to allow a 6-inch bed of concrete under the ties of the street car tracks.

The track was relaid, as the work proceeded, by the Ottawa Electric Railway.

This section was surfaced with creosoted wood blocks and the new work brought level with the rest of the street pavement.

Connaught Place

Pavement.—The work consisted in laying a new pavement in front of the "Union Station."

A section of the pavement, about 50 feet wide and passing under the tramway tracks to a point near the east end of the island in the plaza caved in.

A section over the heating tunnel connecting the station and the Château Laurier was relaid on a reinforced concrete base.

To facilitate vehicular traffic around the city post office the projecting corners of the concrete sidewalks at the northeast and southeast corners were cut off.

New underground electrical connections were installed in the East Block, Langevin Block and city post office.

East Block.—A macerating plant was installed for Finance Department for the destruction of old bonds, bills, etc., and comprise a beater tank, with necessary motor, shafting and pulleys, pumps and water connections together with transmission machinery and loading platform.

Daly Building.—This building known as the Rea or Daly building and site situated on the northwest corner of Sussex and Rideau streets was purchased on September 19, 1921. The approximate dimensions of the property are 155 feet 9 inches on Rideau street by a depth of 189 feet 6 inches on Sussex street, more or less. The building is six storeys in height above the level of Mackenzie avenue.

The three street fronts are constructed of cut-stone with large glass windows.

The three upper storeys are lighted by a court, and the second floor is roofed and provided with a long skylight to ventilate and light the central portion of that floor.

In the basement against Mackenzie avenue is a large boiler-house supplied with three tubular steam boilers, one jacket heater provides hot water for all basins in the building, and a jacket heater in the boiler-room is connected with the tank of the automatic sprinkler system.

On the roof, a large storage tank provides protection from fire to automatic sprinkler system throughout the building.

Men's and women's toilet accommodation is provided on each floor above the second floor.

There are six passenger and two freight elevators in the building.

Fireproof vaults, carried on the floors, are provided from the second floor upwards.

The entrances to the building are from Mackenzie avenue and the corner of Rideau and Sussex streets, with a freight elevator entrance on Sussex street.

The elevator service is in the vestibules adjacent to these entrances.

A grand staircase on the north side of the building extends from the second floor to the basement, and an office entrance and stairway from Mackenzie avenue to the top floor in rear of the passenger elevators.

From the second floor upwards, the floor space is divided into offices, either lighted from the central court or from the outside walls of the building.

Drill Hall, Cartier Square.—A contract was awarded to Messrs. McFarlane & Douglas, Limited, on October 20, 1921, for the roofing of the drill hall.

The old metallic roofing was removed and replaced with Toncan metal roofing, and the main part of drill hall was given two coats of paint.

Central Experimental Farm

Horticultural Branch.—A wooden structure was erected 21 feet in length, 12 feet in width and 8 feet in height.

Agricultural Branch.—An implement shed was erected of wooden construction measuring 185 feet in length, 22 feet in width and 12 feet in height.

A summer kitchen was added to the cottage at the duck plant comprising one room 12 feet by 8 feet.

Farm Superintendent's House.—Extensions and alterations were made to the residence of the Farm Superintendent. This building is wooden in construction measuring 54 feet long and 24 feet deep, is set on stone and concrete foundation, walls of clapboard and shingle roof.

Director's Residence.—Alterations and additions were made to the heating and plumbing of the Director's residence, new headers to boiler and also new mains and other changes to radiation.

A drain 100 feet long was opened and three-quarter-inch pipe laid therein and connection made with main.

22 Vittoria Street

Building for Census Branch.—This addition is of frame construction 101 by 36 feet and wing 18 by 26 feet, two storeys in height. The ground floor is used for a

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filing room and second floor used for office purposes. The walls are built with 2 by 4 studding and sheeted with matched lumber outside and covered with two-ply ready-roofing. The roof is constructed of 2 by 6-inch rafters and matched lumber and covered with three-ply ready-roofing. The inside is finished with Beaver board and battens, all wood stained. The 2 by 10 joists are well bridged and covered with narrow spruce flooring, both floors are of the same construction; the joists on the centre being carried on 8 by 10 posts and beam.

The new building is steam heated and wired for electric lighting.

Victoria Garage.—The Victoria garage at the junction of Duke and Queen streets used for the storage of automobiles from all departments has been sold to the city of Ottawa.

TORONTO

General Post Office, 36 Adelaide Street.—The rear portion, fronting on Lombard street, formerly used by the post office, has been turned into a postal garage. New lath and plaster partitions have been put in to isolate the post office, with large doors for mail entrances. The sleepers and wooden floor have been replaced with concrete floor and a wash rack arranged. The opening to Warden King Building and post office annex has been bricked up and two large openings, with sliding doors, placed in walls on Lombard street.

A small stairway has been arranged, with pipe rail guards to basement.

44-48 Adelaide Street East.—The occupation by the Immigration Department caused the removal of all plaster partitions, counters, and cupboards; the laying of new floors, placing new glass screens and counters, replastering the walls and ceilings and decorating same. The heating and wiring were rearranged. The roof was recovered with ready-roofing and all gutters and down pipes were renewed and outside brick walls and woodwork was repainted.

On the second floor, a detention room was formed with new plaster partitions, heavy door protected with iron and iron grilles placed in windows. The front rooms on second floor were fitted up for the Live Stock Branch, Department of Agriculture.

Postal Station "A" (Terminal).—Work on this building is completed, furniture and fittings installed and the building was occupied by the staff in October, 1921.

Generally.—Repairs, improvements and alterations were made on buildings at Arnprior, Aylmer, Barrie, Bowmanville, Brampton, Brantford, Chatham, Fort William, Hamilton, Hawkesbury, Leamington Lindsay Listowel, London, Peterborough, Port Arthur, Sarnia, St. Catharines, St. Marys, Walkerton, Walkerville, Waterloo and Windsor, but no detailed description is given in the body of the report unless changes have been made in the structure.

MANITOBA

SOURIS

Public Building.—The space between street sidewalk and front of building was relaid with cement paving.

VICTORIA BEACH

Air Station.—Upon an existing substructure, consisting of concrete piers and wooden sills, a wooden platform approximately 120 feet square was built for the aeroplane station.

SASKATCHEWAN

MOOSE JAW

Customs Examining Warehouse.—There was on the site of the Customs examining warehouse a one-story frame building.

An advertisement was published offering to sell this building to be removed off the site, and a tender was accepted for the purchase.

This building was of no further use to the department.

SASKATOON

Public Building.—A contract was entered into October 20, 1921, for supplying and installing two magazine self-feeding hot-water heating boilers to replace existing defective boilers of the round vertical type, and installing radiators for new toilet rooms on second floor.

ALBERTA

CALGARY

Customs Examining Warehouse.—The King's warehouse, on the top or fourth floor, was utilized for an extension of the Taxation Branch, Income Tax Office. New partitions were provided as required, plastered, and made suitable for office use. A stationery room was built and fitted with shelves, etc., and minor repairs were made.

EDMONTON

Public Building.—The plan of the top floor was altered and the space fitted up for the Live Stock Branch, Department of Agriculture.

One large room was divided into two offices, Nos. 310 and 311.

HIGH RIVER

Air Station.—The work was undertaken to supply the air station buildings and property with a drilled well and the provision of a pump driven by a gasoline engine and the water stored in a steel pressure tank in the basement.

The water supply is for the heating boiler of office building, engines of aeroplanes, motors and for drinking water.

LETHBRIDGE

Public Building.—A collapsible gate was erected to divide off the elevator hall from the public space of the post office, so that people, after post office hours, using the elevator or main stair cannot enter the post office public lobby.

RED DEER

Public Building.—The work on the main contract referred to in last year's report has been fully completed.

A contract was entered into November 8, 1921, with Messrs. Baird and Stevenson, Limited, for the fitting up of the post office. The metal fittings for the screen and the locker doors, brass box and drawer fronts, brass grilles, brass plates and wire panelling over public lobby screen were supplied additional to fittings' contract. The screen was constructed of fir.

BRITISH COLUMBIA

BAMFIELD

A contract was entered into with George Calder, dated August 31, 1921, for the erection and completion of a semi-detached building for the accommodation of the customs, post office and telegraph service. This building was completed during the fiscal year and includes the following:—

Post office and telegraph office, with a lineman's room, storage and battery room in the basement, Customs office and examining warehouse. Living quarters are provided in the rear portion consisting of living room, with pressed brick fireplace, and a kitchen supplied with cupboards, sink, rear and cellar entrances.

On the second floor, three bedrooms are supplied and to each a large clothes closet, with a communicating hall from the stairs to each room, a large linen closet with shelving, and a bathroom.

Throughout, the building is furnished with electric lights and is heated with a hot-air furnace.

The exterior is supported on a concrete foundation with concrete dividing walls, running beams and wooden posts, frame walls, shed partitions and roof and ceiling rafters.

The roof and gables are shingled, and the basement and first floor are inclosed with clapboard siding.

The corners and the windows are finished with approved trim, and the gables with barge boards supported on brackets.

Each house is provided with a separate cellar and a grade entrance independent of the offices in front.

The size of the building is 58 feet 2 inches by 35 feet 8 inches, exclusive of entrance steps.

ESQUIMALT

Work Point Barracks.—A contract was entered into between the department and Messrs. Knott and Jones, Victoria, B.C., dated June 20, 1921, for the reconstruction of the headquarters office at Work Point barracks.

The additional constructional, heating and electrical work in connection with the above was done.

NANAIMO

Public Building.—Main sewer extended to low-water mark, cemented over to prevent damage by floating timbers, etc.

Alterations and additions made to public lobby screen to give additional working space.

VANCOUVER

Public Building.—A contract was entered into with Dixon & Murray on August 10, 1921, to erect a glass and panelled partition across the east end of hallway on the third floor of the public building to form an office for the postal inspector's staff. The partition was made of oak; it was stained and varnished and was fitted with suitable door and lock.

FAIRMONT

Royal Canadian Mounted Police Barracks.—The three contracts referred to in last year's annual report have been fully completed.

The water sewerage system and fire protection, including electric-driven rotary firepump and electric motor was installed for the barracks.

Three hundred and eighty-six feet of six-inch steel water mains were laid from end of municipal water main to point of entry to the property.

A four-inch galvanized iron water fire service main installed from the city water main on street to one foot inside building.

Steam connections made between high-pressure boiler and low-pressure steam header with reducing valve, low pressure steam valve and gauge and all necessary connections.

WILLIAM HEAD

Quarantine Station.—Septic tank was constructed for sewage at second-class building, taking up sufficient length of old sewer to make proper connection, relaying same and carrying outlet to foot of bank.

Electric light engine crank, shaft, and engine repaired.

Walls and ceilings of sulphur shed for fumigating apparatus lined with asbestos.

A contract was entered into between the department and Mr. W. W. Fraser, Vancouver, B.C., dated September 17, 1921, to supply and install an oil engine and dynamo. This work was completed within the fiscal year.

Generally.—Extensive repairs were made to buildings at Cumberland, Greenwood, Ladysmith, Nanaimo, North Vancouver, Prince Rupert and Rossland.

ARCTIC REGIONS

ELLESMERE ISLAND

In the construction of buildings for the R.C.M.P., Arctic regions, three groups of buildings for three posts consisting of: Three living huts, three latrines, three storehouses, three blubber houses. In addition to these enumerated one living hut and one latrine was supplied for the use of the medical doctor at the main centre. These buildings were supplied in a knocked-down form.

The one-story general storehouse, 32 by 16 by 8 feet 6 inches high, frame construction, clapboards, boarding, building paper and 2 by 4 studs and rafters, 2 by 8 joists, 24-inch centres, on 6 by 6 sill, shiplap roof boarding and ready roofing. One entrance door and four windows.

The one-story blubber house, 12 by 14 by 8 feet 6 inches high ceiling, one door, one window, with two internal tanks 4 by 6 by 3 feet high, similar construction to storehouse.

The latrines, 4 by 5 feet 6 inches, an average height of 7 feet with one slope roof rearward from the glass door in front and of similar class of work to storehouse.

Living Huts.—The main hut consisted of a one-story frame structure, 40 feet by 16 feet, with a porch 11½ by 6 feet, comprising living room, kitchen, pantry, porch and a large bedroom with a capacity for three sleeping cots.

The outside, 2 by 4 wall studding 8 feet-6 inches high was covered with one thickness of building paper, inch rough boarding and three-quarter-inch thick clapboard-finished at corners and with base. Inside covering, one thickness building paper, seven-eighths-inch shiplap sheathing and covered with painted burlap. On the ceiling rafters a layer of felt paper was laid and a thickness of inch rough boards. The ceiling was of three-quarter-inch shiplap sheathing covered with painted burlap made into panels by three-eighths-inch and 1½-inch wood strips. The roof rafters covered with seven-eighths-inch shiplap and one thickness ready roofing.

The ground floor constructed of 6 by 6 cedar sills, consists of 2-inch by 8-inch joists, 20-inch centres covered with inch rough flooring, a layer of building paper, 2-inch by 2-inch blocking and on same seven-eighths-inch tongued and grooved dressed flooring.

The rooms were finished with a plain base, window and door trim.

Two metal smoke flues or chimneys, were provided above ceiling and roof.

Screen windows and doors, storm sash and storm doors were provided for all openings.

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MILITARY HOSPITALS

NEW BRUNSWICK

RIVERGLADE

Jordan Sanitorium.—This sanitorium is being used for men who were gassed during the late war and are suffering from a form of tuberculosis.

There are some twelve buildings in connection with this sanitorium. Previous to the late war, the Provincial Government used some of these buildings for tuberculosis patients, the heating systems in which had become obsolete, and the pipes in conduits for conveying the steam and hot water to the several buildings have suffered severely in many of these buildings.

New concrete tunnels were built between the power-house and main line tunnel; between power-house and military ward, also steam pipes renewed between administration building and the three provincial cottages. Concrete cover was provided for the main line tunnel. The tunnel at side of power-house was reconstructed for the purpose of giving expansion to the steam pipes, and a new cover provided.

A system installed whereby the exhaust steam from the electric light engine could be used for heating the largest portion of these buildings.

QUEBEC

STE. ANNE DE BELLEVUE

Military Hospital.—A contract was awarded to Messrs. Quinlan, Robertson, Janin, Limited, on September 9, 1921, for alterations to the military hospital.

The above consist of new verandah to nurses' dormitories; corridor between pavilions, D.F.E.; new plumbing and heating; electrical work; skylight monitor; new incinerator and alterations to pavilions and nurses' dormitories, etc.

ONTARIO

BURLINGTON

Brant Hospital.—The changes carried out were as follows:—

No. 8 cottage was damaged by fire. The walls, ceilings, floor and roof had to be repaired and the furnace pipes replaced, and the whole interior redecorated.

The drains in the hospital building were altered and connected to the larger drain.

The old ice-boxes were removed to make room for the Linde Canadian Company's refrigeration plant removed from Toronto, Davisville hospital, and was placed in basement with the ice-boxes on first floor adjoining the kitchen.

A new steam main to refrigerator was installed, together with return having reducing valve and equalizer connected to hot-water tanks.

No. 1 heating boiler which was defective was removed and a new one of larger capacity installed and connected up to mains. The location of feed-pumps was altered and new lubricator put on, and other repairs were made.

LONDON

Westminster Military Hospital

The work referred to in the annual report of last year has all been completed.

Grading Grounds.—A contract for grading and fixing up grounds was awarded to the Webster Construction Company on August 9, 1921.

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The work consists of extensive grading of the land around buildings, including the care of surface drainage; ploughing and harrowing of twenty acres of recreation grounds, and provide cement sidewalks to the married quarters and concrete addition to heating tunnel.

Ground Lighting.—Additional ground lighting to married quarters has been completed; also electric service to medical officers' residences installed.

A contract was awarded for alterations to steam apparatus to W. G. Edge Limited on June 13, 1921.

Alterations were made to the main panel board in power-house to connect same to generator set (installed by the Department of Soldiers' Civil Re-establishment) the intention being to produce sufficient electric power with surplus steam and to only use the hydro system in emergency.

An incinerator has been constructed for the disposal of all objectionable refuse.

Wiring and outlets for fans have been installed in all wards in main building, also two large exhaust fans have been installed in main kitchen.

Machine Shop.—A fire caused damage that necessitated the making of repairs to ceiling joists, beams, flooring, new window frames and sash, painting, electric wiring, brickwork repaired, new sheathing on ceiling and rafters repaired.

Heating and Fire Protection.—A five-inch medium pressure line from power-house to supply main building; a hot-water tank, steam heated, installed in laundry; extra radiation installed in acute wards, northwest section of buildings, and all necessary pipe covering completed. Nine fire hydrants installed for fire protection.

TORONTO

Dominion Orthopaedic Hospital.—A system of galvanized pipes and electric fans was arranged in the limb factory to remove sawdust and shavings from machines and deposit in fireproof room.

The first floor of this factory had become unsafe; ground was levelled up, concrete piers placed under columns and a new concrete floor laid, reinforced over pipe trenches and then covered with wood floor, nailed to strips laid in concrete. All machinery, shelving and racks replaced.

In the isolation Hospital for infectious cases, alterations were made, which consisted of new lath and plaster partition and general repairs.

MANITOBA

WINNIPEG

Tuxedo Military Hospital.—On October 24, 1921, a contract was entered into with Cotter Bros., Limited, for alterations and additions to the "Old Power House," to the high-pressure power plant and other work at the power-house, including alterations to vacuum lines and installing new traps to heating system in the Roblin Hall; removal of condensation pumps from old to new power-house, alterations to steam, return and vacuum lines, etc., provision of an electric driven hoist, and an induced draft fan to battery of four boilers in old power-house, repairs to steam mains in old tunnels, new steam line to fire-pump, blow-off tank and new brass internal feed pipes to the four boilers in old power-house, and the work has been completed.

SASKATCHEWAN

MOOSE JAW

Military Hospital Buildings.—Tenders were invited by advertisement for the sale of the vocational and recreation building and the hospital annex in connection with the Military Hospital situated on Ross Park school grounds.

The school board made an offer and the former building was retained by the board while the hospital annex was sold to be removed from the grounds.

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BRITISH COLUMBIA

VANCOUVER

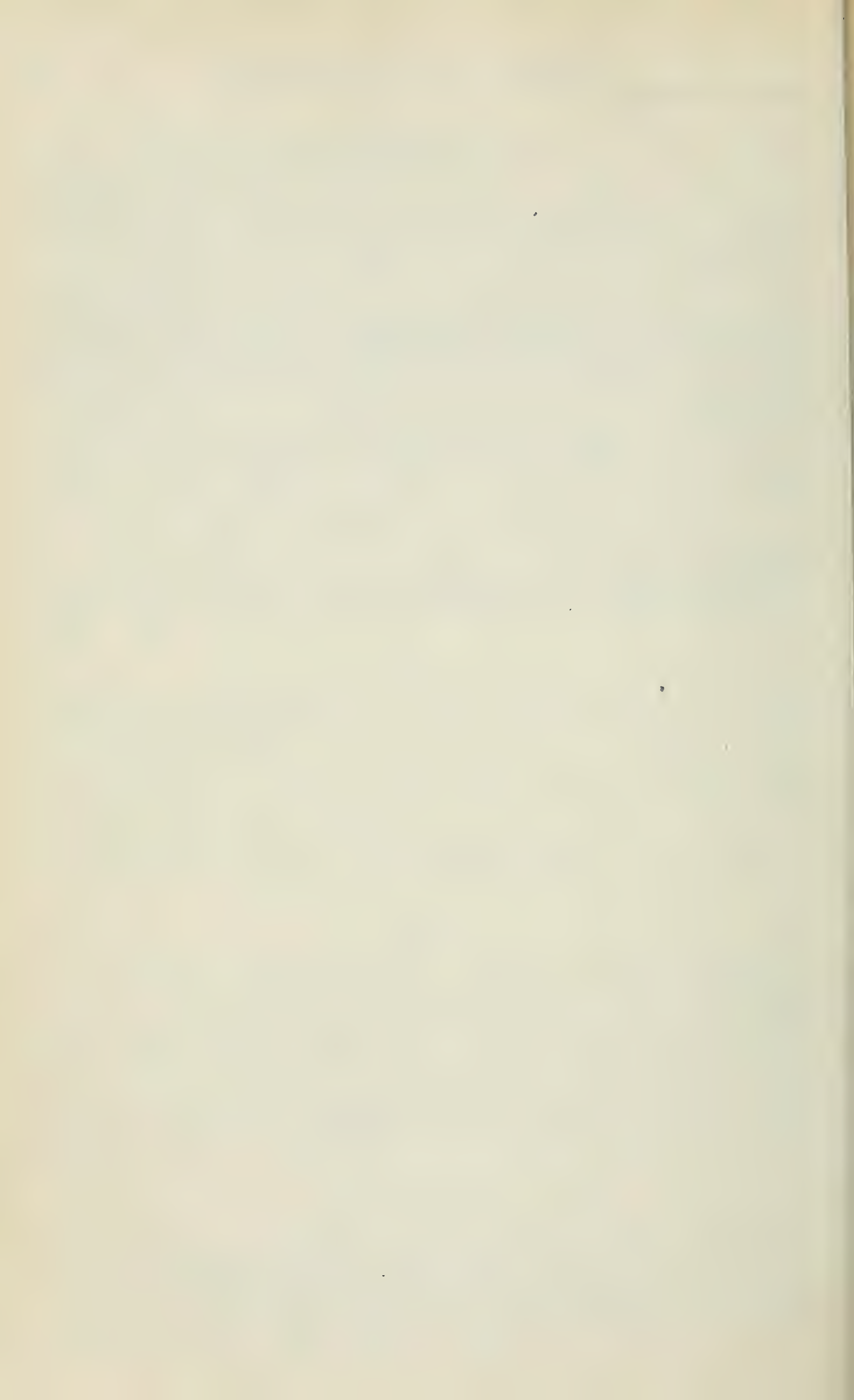
Shaughnessy Hospital.—A contract was entered into with Messrs. E. J. Ryan Contracting Company Limited, Vancouver, B.C., on October 11, 1921, for alterations and additions to building known as the vocational school, for conversion into a nurses' home.

Alterations were made to the rooms on the ground floor for administration offices. The toilet-room was enlarged and additional basin placed in same; the first floor was remodelled to form sleeping accommodation for nurses. By subdividing the present rooms with six partitions eleven bedrooms, each large enough for two beds, were formed, each having a large clothes closet and a hot-air register. A linen room was made off the main corridor and two bath-rooms and one wash-basin in toilet room were installed.

Under the rear central portion of basement, a furnace room was excavated; a retaining wall of concrete was built on the four sides and a concrete floor laid. Outside concrete steps from yard were constructed and protected by a pipe guard railing.

A furnace of 60,000 cubic feet capacity to supply heat to both floors and to all the rooms was installed with all necessary pipes, ducts, registers, etc., complete and a domestic hot water heater was supplied.

An electric lighting system was installed with all necessary wiring, switches, drop lights and fixtures.



HARBOUR WORKS

By **ARTHUR ST. LAURENT**, Chief Engineer

NOVA SCOTIA

BAILEY'S BROOK

During the fiscal year 1921-22, an extension was built to the eastern pier, 100 feet long, 20 feet wide, and an average height of 9 feet. This work is constructed of solid native timber cribwork, close-sheathed on both sides and across the end. Work was carried out under contract with Messrs. Denton and Condon for the sum of \$3,890.

Work was commenced August 19 and completed September 20, 1921.

Repairs

Repairs consisted of building 20 feet of stone-filled cribwork between the inner end of the old shear dam and the bank, and replacing some ballast and covering in the inner part of the old pier.

Work commenced November 18, and was completed December 20, 1921.

BASS RIVER

Bass River, Colchester county, is situated on the north side of Cobequid bay, the eastern arm of the Bay of Fundy.

The work consists of a new wharf, which is situated on the western side of Bass river, about one mile from the centre of the town. The leading dimensions of this wharf are as follows:—

The north side is 96 feet long, 16 wide and 14 high. The south side 117 feet long, 16 wide and 16 high, having a face length of 100 feet, 20 wide and 26 high. A central portion bounded by these cribs and the mainland is gravel filled to a level with the floor of the cribwork. This work was carried out under contract with Messrs. Naugle & Hiltz.

A road was built from the public highway to the wharf, 250 feet long by 20 wide; also cribwork 80 feet long, 6 wide and 4 high as a protection for the road on the sea side.

Further work consisted in constructing a vessel bed along the front of the wharf, 150 feet in length and 30 wide, averaging 2 logs high.

BEAVER NARROWS

Dredging

Dredging was executed during the past season at Beaver narrows, a contraction of St. Peters inlet, a mile towards the north of the canal. This work comprised the broadening of the channel to 200 feet by removing the end of three small points.

The work was performed by the dredge P.W.D. No. 13—October 20 to November 11, inclusive. The material was tough clay and boulders. Area, 41,500 square feet; depth, 18 feet at L.L.L., which is the depth of water over the lock sill in the canal; quantity—9,040 cubic yards measured in place.

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BLUFF HEAD

In 1921-22, minor repairs were made to the covering on the shoreward end of the breakwater, and an ell built to the outer end of the breakwater, 97.5 feet long on the seaward side, and 82 feet long on the harbour side, 31 feet wide and of an average height of 21.6 feet. The structure is very substantial, and of native timber stone filled cribwork.

CHEZZETOOK WEST

This breakwater was constructed in the year 1892 and is a solid crib 775 feet long, 15 wide, averaging 8 high with an "L" 187 feet long, 15 wide and averaging 11 high.

During the fiscal year 1921-22, work consisted of rebuilding 237 feet of the shore end, averaging 15 feet wide and 5 high; also 160 feet of new work near the centre of the breakwater, 15 feet wide, averaging 8 high, and the rebuilding of the "L" and main portion of the breakwater 200 feet long, averaging 15 wide with an average of 7 high. This work was under contract with Messrs. Gerrior and MacKinnon.

The day labour work consisted of repairing and renewing the sheathing on the south side of the breakwater.

EASTERN PASSAGE

Dredging

During the fiscal year 1921-22, a channel 300 feet long was excavated 50 feet wide to a depth of 4 feet L.W.O.S.T. and 350 feet in length, 30 feet wide to 3 feet L.W.O.S.T.

The work was carried out with dredge No. 15. The material being sand, mud, clay and boulders.

GLACE BAY

Dredging

During 1921-22, the departmental dredge No. 12 was engaged in deepening the entrance to 17 feet at L.W.S. for a width of 100 feet and in redredging the area improved during 1920-21, by departmental dredge No. 4 and extending this improvement to the southern side of the harbour.

The scow measurement quantities show a total quantity of 29,226 cubic yards, and of this 18,130 cubic yards were removed over the outside area and 11,096 yards were removed in redredging the area inside, which was improved last year and had silted up an average of about 2 feet over the whole of this area.

INVERNESS

Dredging

Dredging was executed between September 14 and October 31, inclusive, at the entrance to Inverness harbour, in order to deepen it sufficiently to accommodate the fishing boats during the mackerel season.

This work was done by a travelling derrick operated along the eastern pier, which made a cutting 810 feet long by 35 feet wide and 3½ feet in average depth. This involved the removal of 3,768 cubic yards of sand, measured in place, which was piled along the eastern side of the pier. The work was performed by day labour.

This cutting will not remain open over winter, but will be filled as heretofore with the sand yet remaining between the piers. The tide, however, will maintain a passage about 20 feet wide, and three-quarters of a foot deep.

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LAWLOR'S ISLAND

Quarantine Station

During the fiscal year 1921-22, the work consisted of the demolition of 290 feet of northern ell, 40 feet in width and rebuilding 110 feet, 40 feet wide, also the removal of 50 feet of the southern end of wharf and rebuilding 40 feet.

The main wharf was re-covered with 4-inch plank, 30 inches wide for a distance of 136 feet, 14 new fenders were placed along this portion of the work, 12 new bearing piles were driven under the existing old work, the coal shed moved from main portion of wharf to southern ell and fastened to the wharf, a built-in landing on the northern ell, and two ladders put in place, one on each end of wharf.

The dimensions of the wharf as rebuilt are as follows.—

The main portion is 280 feet long, 30 wide, averaging 22 feet high, with a northerly ell 175 feet long, 40 wide averaging 40 feet high; a southerly ell, 40 feet long, 40 wide, averaging 40 feet high, giving a face length of 245 feet.

LITTLE BRAS D'OR

Dredging

During the fiscal year 1921-22, the departmental dredge *No. 13* was engaged from August 3 to August 10 in deepening the berth at the outer end of the Coastal Coal Company's pier to 18 feet at L.W.S., so as to accommodate schooners of this draught which wish to carry coal from this wharf.

The soundings indicate the "in situ" quantity removed to be 4,481 cubic yards; the material dredged was soft clay and alluvial deposit, except over a small area at the eastern end of area improved where rock was encountered and a depth of only 15 to 17 feet at L.W.S. could be made.

LITTLE BRAS D'OR

Jesso's Point and Bras D'Or Mining Co's. Pier

During the year 1921-22, the departmental dredge *No. 13* was engaged from August 12 to September 7 in improving the channel at its narrowest place by cutting off a point extending into the channel down to a depth of about 19 feet at L.W.S., also in removing a small quantity of material at the outer face of the wharf of the Bras D'Or Mining Company.

The "in situ" quantity removed in improving the crooked portion of channel was 16,354 cubic yards.

The improvements at the Bras D'Or Mining Company's dock consisted in over-casting 708 cubic yards (in situ) of hard material.

LIVERPOOL

Dredging

Owing to a number of causes which had been thoroughly discussed in former reports, this channel is subject to repeated fillings-in which have to be removed by our dredges. The object of the work can, therefore, be stated as being to keep this channel to a depth of not less than 17 feet at L.W.O.S.T.

During the past fiscal year, the P.W.D. dredge *No. 1* performed two separate portions of work, details of which follow:

From April 20 to June 10, 1921, this dredge removed 34,674 cubic yards, place measurement.

From November 1 to December 12 this dredge *No. 1* removed 31,175 cubic yards, place measurement.

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The total length from the bridge, which is the inner end of this channel, to the outer end of the bar is 3,135 feet. This channel varies in width—the inner 245 feet being 170 feet wide, the next 335 feet has a width of 200 feet, the next 540 feet is 170 feet in width, then 1,315 feet having a width of 150 feet, whilst the outer 700 feet begins with a width of 150 feet narrowing to 130 feet at its outer end. The inner 580 feet in length has been dredged to a depth of 19 feet at L.W.O.S.T., the next 540 feet has been dredged to a depth of 20 feet, L.W.O.S.T. for a width of 120 feet, the remaining 50 feet in width, however, was only dredged to a depth of 17 feet L.W.O.S.T., and the remaining 2,015 feet was also dredged to a depth of 17 feet at L.W.O.S.T.

MALAGASH

During the fiscal year 1921-22, the work done consisted of an extension 32 feet in length, 40 feet wide with a height of 15 feet at the outer end.

This work is an alternate block and span cribwork structure, 271 feet in length, the first 213 feet being 20 feet in width, whilst the outer 90 feet in length has a total width of 40 feet. It has a height at outside end of 15 feet.

PROSPECT

The work for the fiscal year 1921-22, consisted of rebuilding the entire wharf, new piling, cribs, stringers, guard and new planking. The erection of a crib as foundation for the shed 12 by 22 feet. A landing 40 feet long by 5 feet wide was also built on the north side for the accommodation of boats.

ST. PETERS NARROWS

Dredging

Dredging was performed between November 14 and 18, inclusive, at St. Peters narrows, a contraction of the channel of St. Peters inlet immediately beyond the northern entrance to the canal, in order to provide accommodation for steamboats drawing upwards of 17 feet.

This work was performed by dredge P.W.D. No. 13 immediately before it was ordered to go into winter quarters; and consisted of a cutting 700 feet long by 80 feet wide. The material was tough clay and boulders. Other details of this work are as follows: Area dredged, 56,000 square feet; quantity, 2,109 cubic yards, place measurement, or 2,826 cubic yards, scow measurement, which indicates an expansion of 34 per cent.

SANFORD

In 1921-22, work was done by the construction of a widening or reinforcing block on the seaward face of the outer length of the breakwater. The new block is 73 feet long, 12 feet wide and 25 feet high, of the usual type of stone-filled cribwork, with a 4 feet 6 inch timber break. The outer end of the main breakwater was raised 3 feet high, 25 feet wide and 30 feet long, also the flooring and stringers on the shoreward end of the breakwater were repaired and renewed.

SANDY COVE

In 1921-22, work was done by raising the reinforcing block on the seaward side of the breakwater 20 feet high, 130 feet long, with an average width of 16 feet; also raising the outer end of the main breakwater to an average height of 3 feet, 30 feet wide and 160 feet long. This work is not yet completed.

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SHENACADIE

A public wharf was built during 1920-21, and during the year 1921-22, the departmental dredge was engaged from September 14 to October 15, in deepening the approach to and berths at the wharf to a depth of about 13 feet at L.W.S.

Computations show that the "in situ" quantity removed is 23,430 cubic yards. The material dredged was clay and gravel.

SMITH COVE (PORT HOOD ISLAND)

The work performed during the fiscal year consisted of the construction of an extension to the breakwater, 53 feet in length by 12 feet in width and 9 feet in average height. This extension was constructed of open-faced, native timber cribwork sheathed on the seaward side and outer end.

SOLDIER'S COVE

Soldier's Cove is a farming settlement at the southeast extremity of the Bras D'Or lake.

The work performed during the fiscal year consisted of the construction by day labour of a wharf 200 feet in length, which projects in an easterly direction into a cove in Bras D'Or lake to a depth of 11 feet at low water. This work comprises an earthwork approach, 26 feet in length, enclosed between retaining walls of dry rubble, a native timber pile pier, 174 feet long by 16 feet in width, and an ell at the outer end, 20 feet in width, which projects from the southern side of the pier for a distance of 24 feet. The top of the covering is 6 feet above low lake level. Minor repairs were also effected to the right-of-way leading to the highway, one-half mile distant.

SYDNEY HARBOUR

Dredging

The departmental dredge *No. 13* was engaged from June 1 to June 7 in deepening the approach to Crawleys creek and Fraser's wharf. Soundings show the "in situ" quantity removed to be 2,680 cubic yards.

Quarantine Station

The quarantine station in Sydney harbour is situated on the southern arm near Keating Point, about three-quarters of a mile from Point Edward, which is the eastern extremity of land lying between the south and west arms of Sydney harbour.

Dredging improvement at this wharf was intended to make it accessible during all tides for the ferry boats which call at the place on their routes between Sydney and North Sydney.

On May 4, the departmental dredge *No. 13* commenced operations at the southern extremity of the area to be improved and on the 11th, the work had to be abandoned owing to the presence of solid rock extending easterly from the head of the wharf over which there was practically no class "B" material, and the rock could not be removed by dredge *No. 13*. Rock was also encountered over a large portion of the remainder of the area worked over.

The returns show the scow measure quantity removed to be 1,543 cubic yards.

Whitney Pier

Whitney Pier is a large residential and manufacturing district at the extreme northern end and within the limits of the city of Sydney.

During 1908-09-10, the department constructed a public wharf, but as it only had a depth of water of 6 feet at L.W.S. at its outer end, it was of very little service,

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for the accommodation of freight and passenger boats which might call. During 1912, and again in 1913, an effort was made to deepen the entrance and berths at this wharf, but owing to the material being mostly shale rock, very little progress was made.

The departmental dredge *No. 13* being particularly adapted for heavy work, on May 13 commenced work on the northern side of the wharf where the dredging was hardest. The material encountered was largely shale rock, and after a few days' work it became evident that the work was too heavy for any dredge to remove without blasting or breaking the rock, it was, therefore, deemed prudent to abandon the idea of dredging the area proposed to 16 feet and as about 80 per cent of the area had already 12 feet of water over it, it was considered that if the remaining 20 per cent of the area could be deepened to the 12 foot depth, the resulting improvement would warrant the necessary work. Consequently, the 12 foot depth was carried in to the wharf and on either side of it.

According to reports, 7,979 cubic yards (scow measurement), was removed.

There is now sufficient accommodation at this wharf for the ferry boats, which ply between Sydney and North Sydney, and also for schooners with a maximum draught of 12 feet.

WEST ARCHAT

Wharf

During the year the work done consisted of reconstructing with concrete (in continuation of work begun last year) a portion of the approach, 140 feet long. This work comprises a driveway 16 feet wide, which is built over an older structure of completely decayed cribwork, now enclosed within retaining walls of reinforced concrete. These walls are 6 feet high and have a batter of one in four; they are one foot at the top of the coping, and are built so as to form parapets one foot high along the sides of the driveway. These side walls are rigidly connected with each other at intervals of 20 feet by beams of reinforced concrete.

WINDSOR

Dredging

During the fiscal year 1921-22, the work consisted in the removal of 920 cubic yards of mud from the front of the Government wharf, covering a distance of 620 feet in length, averaging 20 wide, to a depth of 3 feet. Excavation was done by day labour, the material sluiced into the channel. Also blasting and scowing away 738 yards of rock from the points of three ledges north of the Government wharf.

YARMOUTH

Dredging

The dredging in the lower part of Yarmouth steamboat channel and adjacent to the Bug Light was continued last year by P.W.D. dredge *No. 115*, in order to remove the rock shoal at this point and alleviate the sharpness of the turn.

Three cuts have been dredged to 20 feet L.W.O.S.T. but it is possible that one or two boulders still remain to be removed.

The material was a mixture of sand, clay and boulders, making very hard digging for the dredge *No. 115*.

From April 20 to July 30, and from November 8 to December 9 this plant removed a total of 14,159 cubic yards (scow measurement) giving a low return per working day.

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Evangeline wharf

The dredging at Evangeline wharf was for the purpose of removing the accumulated silt opposite this wharf which collects from time to time.

The quantity removed during the season 1921, was 34,578 cubic yards, scow measurement, and the work was done by P.W.D. dredge No. 115 between August 3 and December 16, 1921.

In addition to the above work, dredge No. 115 worked over a triangular area opposite Clements wharf, between October 20 and 26, and removed 3,040 cubic yards, scow measurement, of mud.

The whole area described above had been dredged over during previous seasons.

Parker Eakins Wharf

The object of performing dredging during last season was to open up the channel near Yarmouth Bar, leading from the main channel to Messrs. Parker Eakins wharf, and enlarging the basin on the west side of it. The area of the work comprises a length of 800 feet with a width of from 75 to 170 feet. A least depth of 8 feet at L.W.O.S. tides has now been attained, and the work has been fully completed. The material removed was a mixture of sandy mud and clay, and amounted to a total of 13,485 cubic yards in situ and 14,979 yards (scow measurement) giving an expansion factor of 11 per cent.

The dredging was performed by P.W.D. dredge No. 115.

The work was begun September 13 and completed October 18.

The area as dredged should not require further dredging for seven or eight years.

PRINCE EDWARD ISLAND

CHARLOTTETOWN

Dredging

During the period April 26 to July 9, further improvement of the harbour front was effected by departmental dredge No. 9. Operations were commenced at the dock, west of the wharf of the Department of Marine and Fisheries, completing improvements commenced in the previous fall. The dock has been cleaned out for the full width, about 125 feet at outer end and 145 feet at inner end of dredging. The outer 250 feet carries a depth of 20 feet or better at low water spring tides, thence for a further 250 feet grading up to about 12 feet at low water spring tides, with a small berth 40 feet wide and 50 feet long adjoining the Marine Department's wharf carrying 7 to 8 feet at low water. Work was completed May 25, with exception of one day's work on June 9, 17,400 cubic yards of sand, mud and rock being removed, scow measurement.

The dredge then commenced operations at Pownal wharf, May 26, forming on the west side of the wharf a berth 350 feet long, 80 feet wide, but the outer 150 feet widens to 140 feet. The depth carried at low water spring tides graded from 22 feet at outer end to about 12 feet at inner end. Work was completed June 8, 7,790 cubic yards, scow measurements, of sand, clay and siltage being removed.

On June 10, the dredge commenced at the east side of wharf of Messrs. Bruce Stewart & Co., Ltd., forming a berth 450 feet long, 130 feet wide at outer end and gradually narrowing to 70 feet at near inner end. At low water spring tides, 20 feet or better is carried over the outer 200 feet, thence gradually grading up to about 11 feet at inner end. Work was completed July 9, 13,300 cubic yards, scow measurement, of mud, clay, sand and rock being removed.

After completing her programme at the outports of Murray river and Victoria harbour, dredge No. 9 returned to Charlottetown harbour, commencing work on

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October 28 at the dock between the Ferry wharf and that of George E. Full & Son and approach thereto, and later removing the shoal at the outer end, a depth of 12 feet at low water being provided over the approach averaging 65 feet wide and 340 feet long, the dock itself averaging 45 feet in width for the distance of 250 feet, being dredged from 11½ feet up to 8 feet at its inner end. The shoal referred to adjoins the outer end of the west side of approach and has been cleaned up a distance of 133 feet, its width at inner end being 110 feet. Work was completed November 22, 13,625 cubic yards of material, scow measurement, having been removed.

On November 24, work was commenced removing the wreckage of Lord's old wharf, which extended out to the channel and being partially covered at low water, proved a serious menace to navigation. Work was completed on December 15, the total yardage removed being 9,711 in place from actual soundings.

MURRAY RIVER

Dredging

During the season 1921, July 16 to August 30, the channel on the upper four thousand feet of the river was widened, shoals removed and points reduced so as to provide a comparatively straight channel with one turn of a minimum width of over one hundred feet, and carrying nine feet and better at low water spring tides, or 15 feet at high water springs; the approaches to the different wharves below the bridge also being cleaned up and a small vessel berth formed at the south end of Prowse's wharf and at the north end of what is known as Beck's wharf, the property lately acquired by the local government, its own wharf, "Burnt Point," has been abandoned. During operations, 30,010 cubic yards of soft mud and a small quantity of sand and shell were removed, the work being performed by D.P.W. dredge No. 9.

NORTH LAKE

With a view of making permanent a new outlet formed into the lake through the beach by fall storms in 1917, a contract was entered into September 23, 1919, for the construction of the necessary works consisting of two channel piers, placed 45 feet apart on either side of the "run" and built on pile bents driven at ten feet centres; these waled, capped, close-piled and the interior space filled with alternate layers of brush and stone, the top being covered over for a width of nine feet with 4-inch plank. The eastern work has 330 feet, while the western work is 300 feet long; both being 15 feet in width except the outer 50 feet, which has a width of 20 feet. The beach protection works are of similar construction and extend from about the centre of the piers and at right angles thereto, east and west, 106 and 117 feet respectively.

Construction work commenced June 20, 1920, and completed December 14.

VERNON RIVER

The pier-head of the south wharf, 120 feet in length, fronting on channel and 32 feet in width, was entirely reconstructed; work done was the levelling up of the pier-head generally, renewing all 6 by 12 floor stringers thereon, and covering the whole top with new 3-inch hemlock plank, after which the channel face of the work was strengthened by driving 60 fender piles, 12 of which were of creosoted material. These repairs were commenced August 9 and completed September 17.

General repairs were also made to the covering on pier-head of the north wharf, October 29 to November 10, during which time a quantity of decayed 3-inch plank was replaced with new material.

VICTORIA HARBOUR

Repairs were resumed June 7 and carried on continuously until September 20 when satisfactorily completed. The work accomplished was reconstruction of walls

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of approach 265 feet in length with 12 by 12 timber, fendering same at ten feet centres and placing new guard thereon, the whole roadway being afterwards graded with broken stone and gravel, while a new plank walk, 3 feet wide, was laid on eastern side and a new hand-rail put on. The eastern wall of pier-head, for a length of 90 feet, was reconstructed and strengthened with creosoted piles and adjoining top for width of 14 feet levelled up, floor-stringered and covered with new 3-inch plank.

Dredging

To afford the necessary draught for vessels, cleaning up of shoals, for a distance of 865 feet below the wharves and enlargement of the basin, was undertaken by departmental dredge No. 9, commencing operations on September 10 and completing October 22; the outer end of the dredged channel also being cleaned up to 9 feet at low water spring tides for a width of 50 feet west of the line of the inner range lights, and for a distance of 1,300 feet. During this period, 17,030 cubic yards, scow measurement, of sand, mud and clay were removed.

NEW BRUNSWICK

BATHURST

Dredging

Dredging has been carried on at Bathurst Harbour each season since 1909, excepting the season of 1918, the total quantity of material removed being 1,246,495 cubic yards, place measurement, by contract, and 1,166,062 cubic yards, barge measurement, all by departmental dredges, except 62,608 cubic yards. The net result of this dredging has been,—

1. The deepening and maintenance of a channel $1\frac{1}{2}$ mile long outside the Narrows, generally 200 feet in width, from a controlling depth of 5 feet at low water to 15 feet at low water, and a general depth of 17 feet at low water.

2. The deepening and maintenance of a channel two miles long from the Narrows to the Forks, 200 to 300 feet wide, from a controlling depth of 6 feet at low water to a controlling depth of 13.5 feet and a general depth of 15.5 feet.

3. The deepening and maintenance of a channel from the Forks to Nepisiquit bridge, $1\frac{1}{2}$ miles, 200 to 300 feet in width, from a controlling depth of 6.5 feet to a controlling depth of 15 feet, and a general depth of 17 feet.

4. The deepening of the middle river, or Tetagouche channel, 4,000 feet long and 100 feet wide from 8 feet to a controlling depth of 12 feet at low water, and a general depth of 14 feet.

5. The deepening of a turning basin at the Pulp Mill wharf, 450 by 800 feet, from a general depth of 8 feet at low water to a depth varying from 12 to 20 feet, the major portion being to 20 feet at low water.

6. The deepening of a berth at the Gloucester Lumber Company's wharf, 1,200 feet long, and an average width 100 feet from a general depth of 3 to 7 feet to a general depth of 15 feet at low water.

The tidal range is 7.2 feet for spring, and 2.5 feet for neap tides.

The original project provides for a depth of 25 feet, but a depth of 17 feet at low water was accepted in a channel 200 feet wide, with certain sections at the turns increased to 300 feet, from Bay Chaleur to the Nepisiquit bridge, and a channel 100 feet wide and 15 feet deep from the Forks to the wharf on the Middle River channel.

To this project the following additions have been requested by lumber and trading companies of Bathurst:—

1. An increased width or easement at the turns of the channel, estimated at 70,000 cubic yards, place measurement.

2. A turning basin, 450 by 800 feet, and 21 feet deep, in front of the Pulp Mill Wharf, in the Nepisiquit channel, estimated at 81,000 cubic yards, place measurement, required to complete.

3. A branch channel to the Gloucester Lumber and Trading Company's and the George Eddy Company's wharfs, 2,000 feet long, 100 feet wide and providing 12 feet at low water, with a turning basin 200 feet square, estimated at 39,800 cubic yards, place measurement.

4. A depth of 20 feet in the berth at the wharf at West Bathurst, 750 feet long, estimated at 17,000 cubic yards, place measurement.

5. A turning basin above this wharf, providing 15 feet deep at low water; area about 450,000 square feet; estimated at 124,000 cubic yards, place measurement.

The estimated quantity to be removed for the completion of the original project is approximately 300,000 cubic yards, place measurement, as estimated from the latest surveys. For barge measurement quantities 25 per cent may be added.

Between July 21, and November 11, 1921, dredge P.W.D. No. 4 worked in Bathurst Harbour. The dredging was confined generally to the Tetagouche channel, but small quantities were removed from berths at the Pulp Mill wharf, and Mill No. 2 wharf.

In the Tetagouche Channel, 39,652 cubic yards, barge measurement, of sand and mud were removed to a grade of 15 feet below low water.

At the Pulp Mill and Mill No. 2 wharfs, 12,724 cubic yards and 2,088 cubic yards, barge measurement, of mud and silt were removed, respectively.

CAMPBELLTON

Dredging

For a distance of 3½ miles below Campbellton, the Restigouche river is shallow, giving a minimum depth of only 14 feet of water at low tide. In order that vessels may take out a full cargo from Campbellton, a channel 100 feet wide is being deepened to 18 feet at low water. A depth of 22 feet at low water in the berths at the deep-water wharf is also the objective.

Between June 23 and September 29, 1921, dredge P.W.D. No. 1 removed a total of 129,060 cubic yards, barge measurement, from the channel and berths, divided as follows:—

Location	Barge Meas. Cu. Yds.	Place Meas. Cu. Yds.	Expansion Factor
Oak Point Shoal	80,297	75,615	6.0%
Range of Campbellton lights	40,513	23,374	73.2%
Inner berth at wharf	8,250	5,834	41.4%
Total	129,060	104,823	23.1%

The material removed was generally sand, some gravel appearing on the Range of the Campbellton Lights, and mud in the berths.

The total length of channel covered was 5,400 feet—1,200 feet on the Range of the Campbellton Lights, and 4,200 feet on Oak Point shoal. The distance left to be completed is 13,200 feet of channel. The inside berth at the deep-water wharf was dredged to a depth of 24 to 26 feet at low water for 400 feet towards the outer end of the berth, and a width of 75 feet from the wharf. The dredge was unable to work within 15 feet of the wharf.

DOUGLASTOWN

Dredging

Between May 13 and 23, 1921, dredge P.W.D. No. 2 removed 8,580 cubic yards, barge measurement, of mud and sand from the berth in front of the Miramichi Lumber Company's wharf, deepening the berth to provide 22 feet of water at low water. The original depth varied from 13 or 14 feet near the wharf to the required

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grade, 80 feet distant. The depth obtained is from 20 to 23 feet at low water. The range of ordinary spring tides is 6 feet.

The area dredged was about 37,000 square feet, the length of the berth being 330 feet.

GRAND ANSE

Dredging

On August 28, 1920, a contract was entered into for dredging an area 150 feet wide by 300 feet long, inside the pierhead of the breakwater, and an area 50 feet wide and 260 feet long, inside the eastern pier, together with an irregular area at the harbour entrance at the junction of the two above sections.

It was thought until extensions of the breakwater and pier gave security for boats in the larger area, that it would be sufficient to dredge the berth inside the eastern pier, where all the boats now lie, and therefore, at the beginning of the season of 1921, the area to be dredged was reduced to the latter area only.

Between June 18 and September 17, 1921, the contractors removed 2,842.71 cubic yards, barge measurement, of sand, from a berth 300 feet long and 75 feet wide inside the eastern pier, providing a depth of 3 to 4.5 feet at low water.

The contract rate for the work was 63½ cents per cubic yard, barge measurement.

HATFIELD'S POINT

Dredging

The channel dredged in 1907, below Hatfield's Point, having become filled in at one point so that a depth of only 3 feet of water at low water was available on one side of the channel, with about 5½ feet on the centre line, dredging was undertaken in 1921 in order to provide the original depth of 11 feet. Since the filling occurred at a point where a small stream entered the channel, a basin was dredged in the outlet of this creek and outside the channel, in order to provide a settling basin and longer maintain the channel depth.

Between June 17 and 29, 1921, contractor J. S. Gregory's dredge *Keta* removed 5,472.0 cubic yards, barge measurement of sand, mud and clay, at a contract rate of 33 cents per cubic yard.

LORD'S COVE

On October 20, 1920, a contract (on a unit price basis) was let for the removal of the existing wharf, and the construction of a pile and trestle wharf, together with a floating slip.

On May 19, work of removing the old wharf was begun, and by July 30, 1921, the construction of the new wharf was completed. The wharf consists of a trestle and pile approach 260.5 feet long and 21 feet wide, and a pile trestle pierhead, 50.5 feet long and 41.2 feet wide. The inner end of the pile approach is connected with the shore by a stone rip-rapped fill, 30 feet long and 21 feet wide. A floating slip was also constructed and consists of a timber pontoon, 17 feet wide, 30 feet long and 26 inches deep, on which rests the movable end of a timber slipway, 43 feet long and 6½ feet wide, connected with a landing platform 16 feet by 10.8 feet, supported on piles. The existing shed was replaced on the new wharf. The road approach was repaired, and a fence built for a length of 50 feet of the roadway approach to the wharf.

MIRAMICHI BAY

Dredging

Deep water through Miramichi bay is interfered with at three places—Grandoon Flats, The Horseshoe Shoal, and The Lump.

Grandoon Flats, the shoal farthest up the bay, has at present a controlling depth of 18.5 feet at low water. The tidal range is 5 feet on ordinary spring tides.

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Between June 20 and September 20, 1921, dredge *P.W.D. No. 2* removed 63,095 cubic yards, barge measurement of mud, sand and clay, at the upper end of the flats, where the channel turns. The section dredged was approximately 1,400 feet long, with an average width of 380 feet. Over practically this whole area a depth of 22 to 24 feet at low water was provided. One small section gives a depth of only 20.1 feet.

NELSON

Dredging

In an attempt to provide a depth of 22 feet at low water for vessels loading lumber at the Burchill Ballast wharf, dredge *P.W.D. No. 2* removed 1,011 cubic yards, barge measurement of ballast and mill refuse, on June 3 to 7, 1921.

The required depth was not obtained, owing to the hardness of the material; but some improvement resulted from the work done, the berth being deepened an average depth of 1½ feet.

NEWCASTLE

Dredging

Between May 26 and 31, 1921, dredge *P.W.D. No. 2* removed 3,980 cubic yards, barge measurement, of mud, sand and stones from the berth in front of Mr. James Robinson's mill wharf in order to increase the area providing 21 feet of water at low water for vessels loading lumber. Previously only 14 to 16 feet of water were available in part of the berth. The required depth was obtained over the area dredged,—about 100 feet by 60 feet.

NORTHWEST MIRAMICHI RIVER

Dredging

Midway between Newcastle and Bridgetown a shoal exists, which, previous to the dredging of the past season, provided only 14 to 15 feet of water at low water in a considerable portion of the channel. The tidal range is 5 feet.

Dredging was carried on at this point by dredge *P.W.D. No. 2*, from September 23 to November 4, 1921, 24,610 cubic yards, barge measurement of rock, sand, clay and logs being removed. A section 1,300 feet long and 140 feet wide was dredged to a general depth of 18 to 19 feet.

QUACO

On May 5, 1921, the work of reconstructing the eastern breakwater was begun, and was completed December 1. The work consisted of removing a portion of the existing breakwater, for an average depth of 21 feet, and rebuilding it with round timber cribwork, filled with stone. The top of the finished work is 233 feet long on the seaward side, 253 feet long on the harbour side, and averages 27½ feet in width. The seaward face, above the slope, is sheathed to the top of the cap with 6-inch sawn spruce; and the harbour face is sheathed between the double 10 by 10-inch fenders with 6-inch sawn spruce.

RENFORTH

The work done during 1921-22 consisted of building a new cribwork approach 165 feet long and 15½ feet wide; filling a section of the pierhead 16 feet wide and 32 feet long with timber sheathing and stone; raising the whole pierhead with one to three tiers of timber, and filling the interior with stone and gravel surfacing. Work was in progress between August 4 and September 23, 1921. During the period of the 13th to the 25th of March, 1922, thirty-five piles of the old approach were removed, by means of dynamite, to the level of the bottom, in order to make the berth available.

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ST. JOHN

COURTENAY BAY

Breakwater

Work on the 2,500 foot extension of the breakwater has been carried on continuously throughout the year. The breakwater is now complete for its full length, and coverstones on the outer slopes and on a portion of the new slopes, have been placed. The only work now remaining to be done is completing the breakwater to finished grade, and trimming the slopes.

Submarine Rock

During the year, no further work was performed in the removal of submarine rock at the entrance to the dry dock. The portion now remaining to be removed, about 20,000 yards, at present serves as an outer dam to the cofferdam, protecting the dry dock work. As soon as the dry dock caisson is built, work will proceed in completing this.

Dredging

Dredging in both basin and channel has proceeded continuously during the year, the 24-inch suction dredge *Tornado* working in the basin, and the ladder dredge *Leconfield* in the channel. The channel entrance to Courtenay bay is now in such condition that a boat drawing 28 feet of water can get up into the basin during slack water.

WEST SIDE

Repairs to Pier No. 7

The northeast corner of berth No. 7 showed signs of being separated from the main wharf structure, and repairs had been carried out during 1920-21, but the measures then taken were not sufficient to protect the northeast corner, which was in the form of a very acute angle.

Authority was given to carry out repairs by day labour. These repairs consisted of cutting off the sharp angle and making the corner in the form of a circle. About 110 cubic yards of concrete were deposited in the corner, and both faces of the work brought together with heavy anchor bolts, all embedded in concrete. The work has been satisfactorily completed, and no movement has been noticed during extreme high water.

Refitting Shed D15 for Storage of Cattle

Authority was given to fit up shed D15, West St. John, for the storage of cattle in transit. Work was commenced immediately, and completed December 21.

Shed D15 is 360 feet long by 80 feet wide, and has been divided into 35 pens, 35 feet long by 17 feet wide, with a ten-foot alleyway down the centre of the shed. The pens are provided with water troughs, running water in each, feeding facilities, lighting and sewage. Outside the shed, a roping pen is provided, the cattle being led to the roping pen through the central alleyway. Each pen has a capacity of 20 cattle, the total capacity of the shed being about 700 head of cattle.

General Harbour Maintenance

During the season, in addition to the usual maintenance work on wharves and sheds, the shed on berth 16, and grain conveyer at berths 5 and 6, were repainted; repairs were made to the end of Pier No. 7, and platforms and floors renewed.

The maintenance of berths 15 and 16, particularly the vertical and floating fenders, is a very high item, on account of the disturbance to vessels during a storm.

A fender has been designed and put in service, constructed of cedar or spruce saplings bound together, the fender being of the same dimensions as the standard fender now in use. This fender costs about \$200, and to date they promise to be very satisfactory. Would recommend the adoption of this fender in harbours subject to heavy swell, such as St. John harbour.

Dredging

The main entrance to St. John harbour, having a length of 12,000 feet, together with the various deep water berths are maintained at a uniform depth of 32 feet below low water, ordinary spring tides.

There are two channels entering the harbour, the main channel and the channel between Partridge island and the end of Negro point breakwater, commonly known as the West channel; this latter is not maintained by dredging and is only used by lighter craft during high water periods. Through the West channel, considerable littoral drift enters and accumulates in the main channel and berths, the quantity varying from year to year according to the frequency and direction of storms.

The dredging done during the past fiscal year was under contract, two dredges being employed, the *Beacon Bar* and the *Keta*. The areas dredged in the various berths were as follows:—

Berth No. 2 on a length of 350 feet, No. 3 for 450 feet, No. 4 for 370, No. 5 for 450 and No. 6 on a length of 600 feet, all to a width of 100 feet.

The material dredged was principally gravel and mud, and the total quantity dredged in the various berths was 31,388.68 cubic yards. The *Beacon Bar* removed 17,629.38 yards and the *Keta* 13,769.30. The work was carried on from October 27 to November 24, inclusive.

QUEBEC

ANSE AUX GASCONS

The work done during fiscal year 1921-22, has been under contract, and consisted in the construction of a portion of a breakwater 210 feet in length, 20 feet in width at top and a mean height of 13 feet; of a crib 55.3 feet in length reuniting old and new construction; in filling shore area between old and new construction, reuniting crib and shore line; in levelling hill approach and building a protection cribwork 30 by 10 by 10 feet, at the foot of hill approach on its westerly side.

BATISCAN

Dredging

Work consisted in the dredging of a part of the western and eastern channel, and the whole of the basin situated in front of the Government wharf. This dredging has been done in every alternate cut to a depth of 15 feet below low water level, on a total area of 495,740 square feet.

The total quantity of material removed was 69,650 cubic yards scow measurement. Material encountered was sand, and the mean depth of face averaged 3.2 feet.

Work was done by dredge *P.W.D. No. 123* at two different intervals: (1) from June 8 to June 29, 1921, and (2) from August 4 to October 21, 1921.

BELOEIL STATION

During last fall, tenders were called to rebuild the shore pier, the work to consist of:—

(a) Demolish the old crib-work down to the extreme low water level and on sufficient width to permit the construction of a proposed concrete wall.

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(b) The construction of a concrete wall to be 315 feet 6 inches long, 4 feet 6 inches wide at the bottom, 1½ feet wide at the top and 10 feet high, anchored every 50 feet to concrete blocks 4 by 4 by 4 feet placed some 20 feet behind and connected to the wall by 2-inch steel bars.

(c) The construction at the upstream end of the wall of a reinforced concrete ice-breaker 18 feet 6 inches long, 15 feet wide and 10 feet high.

(d) The replacing of the old material removed at the back of the concrete wall. The work was started at once, was done as specified and completed in December last.

DOUCET'S LANDING

Dredging

Work consisted in the cutting of a sand bar mixed with boulders and hard material which was advancing too far in the channel leading to the wharf, this being dangerous for navigation, principally during the winter season, when ice is running. The dredging was made on a total area of 96,425 square feet to a depth of 12 feet below zero. The total quantity of material removed was 17,900 cubic yards scow measurement of hard sand, clay and boulders. The average depth of face was 3.58 feet.

Dredging was done by dredge *P.W.D. 123*, and was started October 22, and discontinued November 18, 1921.

FATHER POINT

The work done during the fiscal year 1921-22, consisted in the construction of a revetment work along the easterly face of the wharf 85 feet in length, 21 in height, 4 feet wide at top and tapering to nothing at bottom. This revetment is to provide better landing and berthing accommodation to pilots' tender, through doing away with batter on easterly side of wharf; an area of 6-inch flooring 25 feet by 251 feet was also renewed.

GASPÉ

A contract has been entered into by the department for the rebuilding of a portion of the wharf which was burnt in 1919.

The work done consisted in the removing of part of the debris in the portion of the wharf to be rebuilt. A certain quantity of material has also been bought by contractor, and delivered on site of wharf.

NEW CARLISLE

Dredging

During fiscal year 1919-20, a basin 245 feet in length, 75 feet in width was dredged to 13 feet L.W.S.T., along the easterly side of outer portion of wharf by *P.W.D. dredge No. 13*: 5,837 yards of material (scow measurement) were removed in about ten days.

During fiscal year 1921-22, work was started on June 23, 1921, by *P.W.D. dredge No. 4*, to clean and widen the basin dredged during 1919; it was thought advisable to widen said basin from 75 feet to 120 feet and to increase depth of water to 15 feet L.W.S.T., with one foot subgrade: work was performed accordingly to permit safe berthing of barge steamers loading pulpwood from conveyer on wharf.

The basin after completion of work on July 16, 1921, was 265 feet in length, starting from southeast corner of wharf, along the eastern side of wharf on a width varying from 120 to 160 feet and a depth varying between 10, 13 and 16 feet.

Material removed consisted of coarse and fine sand, of which 10,942 yards were scowed away. Materials were dumped in 8 fathoms of water, about 2 miles from working ground.

NORTH TIMISKAMING

(This work is described in the annual report for 1921).

Construction was started by day labour in fiscal year 1920-21—but was discontinued in March, 1921. Work was resumed in August, 1921, and completed in November. The wharf is built of pilework, having a landing-head 86 feet wide and 106 feet 4 inches in length, with two slips; a pilework approach 17½ feet in width, built on a 5½ per cent grade, composed of 14 bents, for a length of 98 feet; an earth and stone approach, 50 feet in length. There are wooden handrailings on both sides of the pilework approach and on the inner side of the landing-head. A freight shed and a shelter was erected, having a total length of 91 feet and a width of 20 feet, with 13-foot walls.

POINT SHEA

The work done during the fiscal year 1921-22, consisted in placing 1,200 yards of heavy stone along the easterly face of the wharf to build a rip-rap protection 160 feet in length, 16 feet in mean width and a mean height of 11 feet; in laying a concrete trail upon 110 by 10 feet on northerly side of approach to wharf; in placing 675 yards of stone ballast in the wharf; in renewing the hardwood planking of the wharf 175 feet in length by the full width; in laying a trail 275 feet in length by 12 feet in width over the shore end portion of planking of the wharf, and in renewing 20 fenders.

During the winter months, a rip-rap protection was placed along the easterly side of the wharf on a distance of 90 feet by 24 feet with an average height of 13 feet.

RIMOUSKI HARBOUR

The work done during fiscal year 1921-22, consisted in the building of a siding 1,030 feet in length by the Canadian National Railway under supervision of the Department of Public Works, along the wooden trail of the westerly face of new wharf. The area north of northerly face of old wharf was filled up to top and levelled; westerly area between westerly faces of old and new construction was graded and levelled before the laying of the siding.

Five thousand seven hundred and thirty-six yards of earth were carted and dumped in place for filling and levelling purposes also 24 loads of fascines; 388 yards of small stones were packed along the wooden trail to prevent the washing away of earth filling by the sea during violent storms.

The 3-inch planking underneath the rails of railroad branch on wharf were renewed on a length of 950 feet by 16 wide and another length of 715 by 12 feet wide.

The planking of old wharf was covered with 3-inch deals on an area of 520 by 30 feet and another area of 112 by 22 feet with 2-inch deals.

Areas of 500 by 24 and of 350 by 10 feet of planking of old wharf were patched up with old deals still serviceable.

Levelling caps supporting rails was done on a length of 2,300 lineal feet and on a height of 3 to 6 inches.

Stringers 12 by 12 were replaced on a length of 600 feet and 200 L.F. of 12 by 12 cap piece were renewed.

A small shed 12 by 12 feet was built near the public building to store equipment belonging to District Engineer's office.

Dredging

The work done at Rimou-ki consisted in the completion of a basin 1,000 feet in length by 200 and 440 feet in width and a depth of 22 feet L.W.S.T., and in the dredging of an entrance channel 200 feet wide to 15 feet L.W.S.T., starting from the 15-foot contour line to wharf.

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Dredging in the basin was begun under contract in 1914, this contract was cancelled in November, 1918; in the meanwhile, dredging was done in 1914, in 1915, in 1916, in 1917, during these four years 327,000 yards of materials, scow measurement, were removed.

In 1919 and in 1921, work was also done in the basin; removing only hard material which was rehandled for the purpose of filling the space between the new and older construction; 48,676 yards of materials (scow measurement) were removed, consisting of hard-pan clay of which 46,043 yards were rehandled by derricks travelling on wharf.

No work had ever been done before 1921 in the entrance channel such as now laid out.

In 1922, a quantity of 122,997 yards (scow measurement) has been removed from the basin end and the entrance channel.

Dredging was performed by P.W.D. dredge No. 110 from May 30 to October 1, 1921, in a satisfactory manner.

To complete dredging under way at Rimouski, an amount of approximately 35,000 yards of materials, measured in situ, will have to be removed from basin, and an amount of 45,900 yards measured from the channel.

An allowance for dredging to 1-foot subgrade has been included in the above quantities.

RIVER ST. MAURICE

Eastern Channel

Dredging in the eastern channel of the River St. Maurice consisted in cleaning out of the basin situated in front of the Tidewater Shipbuilders Co., Ltd., plant on a total area of 182,275 square feet to a depth of 13 feet below zero on the gauge. In dredging a sand shoal which was formed inside the entrance of the eastern channel on a total length of 600 by 70 feet to a depth of 13 feet below zero on the gauge.

The total quantity of material removed at the two above mentioned places was 1,150 cubic yards of overcasting, and 29,550 cubic yards scow measurement, giving a total quantity of 28,700 yards of material removed in the channel and basin. The average depth of cut was 2.57 feet and the material encountered was sand and clay.

Dredging was done by dredge *P.W.D. 123*, and was commenced June 30, and completed August 3, 1921.

This channel is straight from its entrance to the Wayagamack Canadian Pacific railway bridge and follows the north shore of Ile St. Christophe.

RIVER DU LOUP (EN HAUT)

Dredging

Dredging was done at different places from Louiseville wharf to the mouth of the river, as follows:—

1. From the Government wharf to Tourville's mills, a channel 35 feet at bottom, and a basin 125 feet wide, in front of the Government wharf dredged to a depth of 5 feet below low water level.

2. From Tourville's mills to the mouth of the river, dredging done at different places on a total length of 3,200 feet 35 feet in width at the bottom, and to a depth of 7 feet below low water level.

The total quantity of material removed was 29,359 cubic yards place measurement, or 31,165 cubic yards scow measurement, and also 2,000 cubic yards scow measurement, making a total quantity of material removed of 33,165 yards, scow measurement. The average depth of cut was 2.15 and the material encountered was sand and clay.

The dredging was done by dredge *P.W.D. No. 123*, and was started April 27, and finished June 7, 1921.

ST. MICHEL

A temporary landing was built by day labour, work commenced May 10, 1921, was completed on 28th and consisted in building a trestle 12 feet wide by 350 feet long to connect the headblock of the wharf with the shore end.

VERDUN

Dredging

Dredging was done during the year at several points in the steamboat channel between Verdun and La Tortue: immediately opposite the wharf at Verdun for a distance of 2,500 feet; opposite the east-over some 5,000 feet from the wharf; 1,500 feet from the east-over towards La Tortue in the channel, and some cleaning up was done in front of La Tortue wharf.

From April 13 to September 30, 1921, work consisted of the removal of 388 boulders; 21 large boulders drilled, blasted and removed, and 400 yards of clay, sand, gravel and small stones were removed. After the work was completed, the channel was swept and tested, the ferry being able to navigate safely at low water with a draft of over 7 feet without touching when kept within the limits of the 40 to 50 foot channel.

ONTARIO

BELLEVILLE

Dredging

A contract was entered into for the removal of some 30,937 cubic yards of mud, clay and gravel to complete the improvements started in 1915, of the fairway from deep water to the public wharf. In the middle ground in front of the public wharf, a quantity of 19,820 cubic yards, place measure, was removed above sub-grade during the period August 29 and October 8, to obtain a depth of 12 feet below low water, elevation 245, lake datum. The material consisted of mud and sawdust and the quantity removed in scows was 18,137 cubic yards which indicates that some of the material was swept outside the area dredged.

A basin, with entrance 100 feet wide, east of the dock was also excavated to a depth of 12 feet behind the landing head and extending along the approach a distance of 300 feet, during the period of October 10 to November 18. The quantity of sand, gravel, clay and boulders removed from this area amounts to 11,117 cubic yards, place measure, and scow measure was 17,515 cubic yards.

In the channel leading to Allen's wharf, two projecting points were dredged, October 26 to 29, and material removed consisting of sand, gravel and boulders was 745 cubic yards, place measure, above sub-grade and 168 below. The area dredged covered approximately 6,900 square feet on the north side of the channel and west of the red spar buoy, and depth obtained was 11 feet below low water.

A bar some 10 feet in width and 70 in length, consisting of sand, gravel and boulders which obstructed the south channel of the swing span of the Quinte Bay bridge was removed to a grade depth of 14 feet below low water.

BURLINGTON CHANNEL

The piers at Burlington channel are of very old construction and were built about 1823. The structures originally were different widths in some places to those that exist at the present time, and the depths to which the original cribwork was

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sunk in position while ample for the early navigation which traversed this waterway, is of too shallow depth for present draught of lake freighters.

In 1904, sheet piling was driven in position along the channel sides of both piers to strengthen the piers and to overcome the liability of undermining the structures while dredging operations were being carried on in this channel. Concrete superstructures were constructed over different portions of the south pier during the last ten years.

The swing bridge for passenger and vehicular traffic which was constructed by this department some twenty-five years ago, outlived its usefulness and on examination it was demonstrated that the structure would have to be rebuilt or superseded by another bridge. It was therefore deemed advisable to construct a new bridge of the Bascule type.

(a) Authority was given for the construction of a new bridge, which is under contract with the Canadian Engineering and Contracting Company and the Hamilton Bridge Company.

(b) Authority was given for the construction of the bascule steel bridge, which work is under contract with the Canadian Engineering and Contracting Company and the Hamilton Bridge Company.

Operations in connection with the construction of the substructure of the bridge were continued on April 1 by the contractors. The contract for the substructure has been completed with the exception of a small amount of earth filling which cannot be placed in position until spring. The work accomplished consisted in the driving of round piles under the foundation, the driving of sheet piling, the construction of the concrete abutments and the filling in of the earth approach.

The work of constructing the superstructure of the bridge was commenced October 20 and is still under way. This contract has been completed with the exception of painting, railings, grading, etc.

A temporary crossing for pedestrian traffic was constructed over the Grand Trunk Railway bridge and watchmen were maintained on this temporary crossing during the fiscal year.

COLLINGWOOD

The east breakwater, covering a length of 1,815 feet and varying in width from 25 feet to 40 feet, constructed of timber cribwork in 1882-83, was found to be in such a dilapidated condition that a reconstruction of the superstructure from the Grand Trunk wharf outwards, was imperative. A contract was awarded in February, 1920, for the reconstruction of 750 feet commencing at the outer end and extending shoreward. A portion of this contract was completed during the fiscal year 1920-21.

Operations were resumed April 1. The contract was completed and final estimate given July 9. The work accomplished during the fiscal year is as follows:—

(1) On the south face of the breakwater, concrete blocks were placed in position for a length of 78 feet 8 inches.

(2) On the north face of the structure, concrete blocks were laid in position for a length of 633 feet 6 inches, commencing at a point 116 feet 6 inches from the outer end and extending southeasterly.

(3) Mass concrete was placed in position covering above length of 633 feet 6 inches by a width of 24 feet.

(4) Six mooring rings with staples were set in position.

Plans and specifications were prepared and a contract awarded November 16 (unit prices) totalling \$33,828 for the reconstruction in concrete of 500 lineal feet of superstructure of eastern breakwater, commencing at a point 750 feet from the outer end and extending southeasterly 500 feet in length by a width of 24 feet.

No expenditure has as yet been incurred in connection with this contract.

COLLINS BAY

Dredging

A contract was entered into for the removal of five cribwork piers and seven pile piers, and for dredging a channel to the wharf. The work when completed will consist of a channel 100 feet wide and 400 feet long from deep water to the wharf to a grade depth of 12 feet below low water, elevation 245 lake datum; a turning basin 100 feet square to grade depth of 14 feet; the material to be removed will be 3,250 yards class B, 423 piles and 2,700 cubic yards of old cribwork.

The contract price is 50 cents per cubic yard for class B material, 75 cents for cribwork and \$3 per pile removed.

DEPOT HARBOUR

The elevator wharf was built in 1903, in extension to the wharf constructed by the Grand Trunk Railway. This wharf covers a length of 525 feet with a width of 80 feet.

On October 3, 1919, a contract was awarded for the reconstruction in concrete of the superstructure of the elevator wharf.

Operations were resumed April 1, and the contract was completed July 16.

On the north side, commencing at a point 511 feet from the easterly end, new concrete superstructure was built extending westerly to end of wharf, said section being 14 feet in length by 4 feet in width.

On the south side, concrete superstructure was built for full length of the work.

On the outer end of the wharf, a concrete superstructure 4 feet in width was constructed for a length of 72 feet to connect concrete wall of the north side with concrete work on the south side.

All of the above work consisting of block and mass concrete extended from a point one foot below zero, of gauge to a point 6 feet above elevation 580.0.

FORT WILLIAM

Rubble Mound Extension to the Mission River Breakwater

Plans and specifications were prepared and forwarded for the construction of an extension of the rubble mound type, 1,000 feet in length, to the Mission river breakwater.

A contract dated October 4, 1921, was let, the estimated quantity being 75,000 tons, and the unit price \$1.39½ per ton.

During the past winter, the contractors have opened a quarry at Point Brule, on the lake shore approximately one and three-quarter miles southerly from the site of the work, and have carried on drilling and blasting so as to have the larger proportion of the rock required in shape to place in the work on the opening of navigation. To March 31, 1922, approximately 25,000 tons were drilled and blasted.

HARRICANAW RIVER

(Lake Demontigny)

During the past season, a channel 60 feet wide and 2,200 feet long was completed and some 16,890 cubic yards, in situ, of clay was removed between June 20 and October 18.

When fully completed, the channel will be 2,940 feet long by 60 feet wide; some 4,250 cubic yards of hardpan and clay at outer end necessitates blasting and remains to be removed; it is also intended to remove about 430 cubic yards of clay to straighten the natural channel between the cut and the outlet of lake Demontigny.

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KINGSTON

A contract was entered into for the dredging of a basin 1,180 feet long by from 400 to 600 feet wide, located on the north side between the east and west extremities of the causeway to grade depth of 16 feet below low water, elevation 245 lake datum, along the La Salle highway bridge, also the removal of old broken piles of the temporary bridge

From July 4 to August 8, some 15,692 cubic yards, place measurement, principally soft mud were removed, but sand, gravel and boulders were encountered near the east end of causeway. Work on the piles of the temporary bridge was started on October 11.

Some cleaning up was done at the Queen street and the Princess street slips where sludge and rubbish was removed, and a berth 180 feet long by 50 feet wide to a grade depth of 10 feet below low water was provided alongside the Kingston Milling Company's dock.

KINGSVILLE

Dredging

Departmental dredge *Q & R No. 1* was engaged in deepening and widening the entrance channel, deepening the berths at the wharf and enlarging the turning basin.

The dredge operated from April 11 to June 9, 1921, and removed a total quantity of 40,122 cubic yards S. M. of hard sand.

The minimum depth in the entrance channel, 980 feet long by 154.4 wide, is 14.0 feet at a point 20 feet from the range of the light and 500 feet south of the western pier, and 14.3 feet deep in the centre of the channel. Three hundred feet south of the western pier, between these points there is a fair channel 75 feet wide having a minimum depth of 14.5 feet.

LITTLE CURRENT

Work on wharf and buildings as described in the annual report for 1921, was commenced May 10 and the whole contract completed August 25.

It was decided to construct a concrete storm sewer through the wharf to provide an outlet for a creek which discharged onto the wharf site through a culvert under the main street; this sewer is 86 feet long with an opening 8 feet wide and is 4½ feet high.

MACLAREN'S LANDING

On April 19, a contract was entered into for the construction of this wharf, for the sum of \$7,411.48 (unit rates).

The structure is of pilework, consisting of a landing-head 24 to 32 feet wide by 65 feet 6 inches long at face, a low level landing 8 by 32 feet for gasoline launches, etc., drawing 9 feet at landing face, a pilework 16 feet wide by 159 feet long, an earth and stone approach roadway 16 feet wide on top and 20 feet long. A passenger shelter 16 by 16 feet is also provided.

Work was started May 20 and completed July 15.

MIDLAND.

(Tiffin)

Work consisted in the removal of all practical obstructions and three large boulders where a clear depth of 21½ feet is now provided. The only obstruction now remaining is a ridge of natural clay bottom and small hard heads, approximately 30 feet long by 10 feet wide over which there is a minimum draft of 22.5 feet, and located parallel to and at a distance of 175 feet from the northern end of the Grand Trunk Railway elevator wharf.

The regular depth in the harbour is 25 feet below zero of gauge.

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MILFORD BAY

Milford Bay, in the township of Monek and district of Muskoka, is situated on the east shore of lake Muskoka, one mile east of Beaumaris and 14 miles from Bracebridge, the nearest railway point.

The wharf, consisting of a timber crib and space structure, covering a length of 140 feet by a width of 11 feet, was constructed some thirty-four years ago by the Stroud Estate and maintained by them.

Order in Council was passed September 13, granting authority for the acceptance and free transfer from R. J. Stroud of this wharf property.

Reconstruction operations were commenced January 25, completed February 25, and consisted in rebuilding the superstructure of the wharf from water level, covering a length of 140 feet by a width of 11 feet.

NORTH BAY

Repairs to the wharf consisted of temporarily placing some 28,000 feet b.m. 3-inch flooring in centre strip of approach.

A contract was entered into with Grant Bros., on February 23, for the reconstruction of wharf for the sum of \$27,647.28 (unit rates).

Work was started February 21 and progressing favourably at the end of fiscal year. 95 per cent of the old structure was demolished, 70 per cent of piling was done, 25 per cent of timber and lumber was delivered and 60 per cent of stone for stone approach was in place.

OTTAWA RIVER STORAGE

At Quinze dam, advantage was taken of low-water conditions, due to drought in August and September, to repair all breaks in concrete and clean out sluiceways. The autumn precipitation permitted replenishing the reservoir. During the open season, further improvements were made to the road leading to the dam from Guérin.

At Timiskaming dam, the Ontario sluiceways were thoroughly cleaned out. Three-inch planking was procured for new deck, and part of the Ontario dam was refloored in March.

During the year, there was no evidence of scour below the sluiceways of Timiskaming dam. Levels taken on the piers showed that the two piers in Quebec channel (where break occurred in 1914) have continued to settle—0.14 feet in two years.

PELEE ISLAND

West wharf.—The top two and three courses of face timbers across the outer end and for a distance of 45 feet on each side were renewed, and the top timbers and flooring in front of and in the warehouse were repaired.

North wharf.—Face timbers on the west face were replaced; part of the decking between the warehouse and outer end of wharf for 83 lineal feet was renewed and minor repairs were made to the warehouse.

Dredging

The Cameron Steamship Company's clamshell dredge *Gunnell* removed from the north side of the west pier on June 12 last, 80 cubic yards of ballast stone and 50 cubic yards of clay. Where the rock was, there is now from 9½ to 12½ feet of water close to the pier, and 8 feet out from the pier there is not less than 13½ feet of water.

PORT ARTHUR

Extension to the Rubble Mound Breakwater at Bare Point

A contract dated July 26, 1919, for the construction of an extension, 1,600 feet in length to the rubble mound breakwater was let to the Chambers, McQuigge and

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McCaffrey Co., Ltd., Toronto, the estimated quantity of rock being 475,000 tons, the unit price \$1.44, and the total estimated cost \$684,000.

Actual work on this contract was commenced on October 8, 1919, and has been continued with the exception of a few interruptions due to weather, difficulty in obtaining material, etc., since that date.

In March, 1921, an extension of this contract providing for an additional length of 250 feet, at the same unit price, was authorized.

Construction has been carried on both by the scow method and by train fill from a trestle, the construction track being laid from the quarry at Bare Point out over the original Bare Point breakwater.

The work was in operation on April 1, 1921, and was carried on until December 15, 1921, when ice conditions forced a discontinuance throughout the winter. From the beginning of the work to the latter date, 340,611 tons as specified had been placed in the work at the unit price of \$1.44 per ton, and 3,017 tons at a modified unit price of \$1.34 per ton. During the fiscal year 1921-22, 73,168 tons were placed.

The core of quarry run is now practically completed, and approximately 25 per cent of the covering stone has been placed. It is estimated that a further 45,000 tons of both classes will still be required before the contract is closed.

The core of quarry run stone has been obtained almost entirely from the Bare Point quarry, situated at the shore end of the work. A small proportion of covering stone was also obtained from this quarry. The greater part of the covering stone however, has been obtained from Caribou island, situated in Thunder bay, some 15 miles northerly from the site of the work, and it is from this location that the remainder will be obtained to complete the work.

This contract should be completed by August 1, 1922, to which date an extension of time has been granted.

On account of the soft nature of the lake bottom, sudden unexpected and unequal settlements have been met with frequently, as was anticipated, although the total settlement has not been nearly as large as was originally estimated. These settlements have made it necessary to do a large amount of sounding over the dump at frequent intervals.

As the material is paid for by the ton, all rock placed in the breakwater from construction trains, goes over weigh scales. In all cases where the rock is placed directly from scows, the latter have been equipped with gauges which are read before and after unloading.

PORT BURWELL

Dredging

Dredging was performed by departmental dredge No. 117; work was commenced April 1, last, and was continued throughout the whole of the season until December 14, with the exception of the period between August 15, and September 13. The total quantity removed to December 14 was 238,177 cubic yards, S.M. Dredging in outer harbour was performed so as to leave a safe depth of 23 feet below L.W.L. or zero of gauge, and in the inner harbour to a depth of 18 feet below L.W.L. This dredge again commenced operations on March 23, 1922, and prior to the closing of the current fiscal year 6,519 cubic yards scow measurement were removed.

On December 19, last, during a severe storm the superstructure of the breakwater sustained heavy damages and it is estimated that it will cost \$47,000 to repair.

PORT STANLEY

Dredging

Work of deepening and widening the navigable channel was done by the following departmental dredges:—

Dredge No. 117 from August 15 to September 13, 1921, removed 16,618 cubic yards, scow measure, of class B material and 8,837 cubic yards of stone filled crib

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work. Dredge *Q & R No. 1* from September 14 to November 17, 1921, removed 42,024 cubic yards of class B material. Total quantity dredged by both dredges is 58,642 yards of class B, sand and clay, and 8,837 yards of stone and timber, and the depth obtained is 20 to 24 feet.

The dimensions of the work accomplished are as follows:—

Turning basin: about 150 to 875 feet, minimum depth 16.0 feet, maximum depth 21.2 feet below zero of gauge.

Between piers: from the angle in harbour wall north of the elevator to end of west pier, 50 by 1,370 feet; minimum depth 17.2 feet, maximum 23.2 feet below zero.

Outer harbour, south of west pier, 25 by 720 feet; south of west breakwater, 35 by 235 feet, and removal of Pere Marquette breakwater 30 by 340 feet; minimum depth 18 feet and maximum 25.3 feet below zero of gauge.

Winter harbour, between the old Pere Marquette breakwater and the new breakwater, 200 by 230 feet; minimum depth, 15.0 feet, maximum 21.8 feet below zero of gauge.

RONDEAU

(This work is described in the Annual Report for 1921.)

The Border Cities Construction Company's contract was continued during the present fiscal year and completed August 25. The original contract called for the reconstruction of a portion of the superstructure of the western entrance pier being 227½ feet long, and on May 31, an extension of 48 feet at the southerly end of the work under contract was authorized.

The work consisted in the removal of the timber superstructure of the present pier and the building of a concrete face wall along the front of same, together with bearing piles placed under the toe of the wall. Anchor piles driven in the rear of the pier with tie rods extending from the anchor piles to the front of wall.

The Wm. Bermingham contract was continued this season and completed June 15. This contract provided for the construction of a sheet pile wall 320 feet long in front of the lightkeeper's dwelling, connecting the east pier with the groynes at a point to the east of the lighthouse.

The general repairs to be undertaken by day labour were performed between May 2nd and October 5th, and consisted in repairs to decking and face timbers over a considerable portion of the east pier and a length of about 200 feet of the west pier to the south of the section undergoing reconstruction in the Border Cities Company's contract.

SAULT STE. MARIE

Heretofore improvements by dredging on the Canadian side of the river had been performed to a depth related to the depth of water on the lower sill of the Canadian lock. Two much larger and deeper locks have been constructed on the United States side in 1914 and 1919 respectively and approaches thereto have been improved to a depth of 1½ feet greater than the grade of the Canadian portion of the channel. 90 per cent of the shipping now uses the United States locks and load to the full depth available, hence the shoaler Canadian part of the channel became a great danger to it. The improvements undertaken in 1921, consisted in the removal of loose rocks, boulders, etc., from a large area contiguous to the United States channel and to the same grade depth, having an average width of about 250 feet extending from a point opposite East street easterly to a point 500 feet east of the Government wharf, or for a length of 2,200 feet. While it is very unfortunate that the whole of the work was not completed as laid out, namely: the area lying between the International boundary line and a line passing 300 feet out from the end of the Ferry wharf and the Government wharf, thence to the westerly end of the Bayfield shoal rock pile, yet the portion covered constitutes a very decided improvement.

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The material removed consisted of 5,358 cubic yards of boulders, loose rock, and cemented gravel, and 2,100 cubic yards of ledge rock. It was all deposited on the east side of the Imperial Oil Co's. wharf, involving a tow of about half a mile.

A contract was entered into for the performance of this work. It stipulated payment at the rate of \$125 per day of ten hours full working time for hire of plant, but provided for deductions in case of lost time due to stress of weather, or breakages. The plant consisted of a derrick scow equipped with hoisting engines, derrick equipment, grab buckets, rock tongs, and other devices for lifting loose rock and boulders, and also included a complete diver's equipment, and a light drilling and blasting equipment. The rate of hire included the wages of the crew, fuel, and all other expenses.

Work was commenced May 25 and was suspended November 9, when the authorized amount of expenditure became nearly exhausted.

SPARROW LAKE

Sparrow Lake, in the District of Muskoka, is a station of the Canadian National Railway, 9 miles south of Gravenhurst and 14 miles east of Orillia.

A contract was entered into for the construction of a wharf, work was commenced February 1, completed March 3, and consisted in the construction of a stone approach 70 feet in length by a width of 16 feet on top, also the construction of a crib and timber superstructure covering a length of 30 feet with a width of 16 feet and a depth of 9 feet.

STURGEON FALLS

An extension to the wharf, built in 1904-16, 106 feet long by 16 wide was built October 11 to December 8. The landing face consists of four cribs 8 by 16 feet and one 10 by 16 feet, with platforms, 16 feet long, spanning the cribs; four round timber cribs, 18 by 6 feet placed behind landing-face cribs, blocking spaces so as to hold the backfill. A stone and gravel backfill, 106 by 20 feet was made, some 325 cubic yards of stone and 800 yards of gravel being used. The old 4 inch flooring on the cribwork extension, built 1915-16, was renewed and the shingle roofing on freight shed was replaced with corrugated iron roofing. Some 260 cubic yards of gravel was placed to complete grading of roadway approach.

Revetment wall

The unfinished revetment wall, 400 feet long, along the roadway approach to the wharf was completed June 17 to 27, and consisted in sheeting some 180 lineal feet, 6 to 10 feet high, on each side; excavating ditch and constructing plank drain; making concrete culvert; trimming piles; grading roadway approach, etc.

THAMES RIVER

Dredging

Authority was received to deepen and widen the entrance channel at the mouth of the river and to remove certain shoals that were impeding navigation in the upper river near the city of Chatham.

This work was performed by departmental dredge *Q. & R. No. 1*, as follows:—

(1) Between June 20 and August 13 inclusive, at the mouth of the river. Quantity removed 33,166 C.Y.S.M. class "B" material, silt and clay.

(2) Between July 11 and August 4 inclusive, between the river mouth and Chatham. Quantity removed 21,252 C.Y.S.M. class "B" material, sand, silt and clay. Of this latter amount, 15,999 C.Y.S.M. were removed from the river in the city of Chatham and 5,253 C.Y.S.M. at a point opposite St. Joseph's Hospital.

TORONTO

Harbour Improvement Scheme

Western Section.—During the fiscal year 1921-22, the contractors have completed and placed in position 6,265 lineal feet of cribwork, made up as follows:—

Sections D, E, F, G, H, I, J, K, L, M, Z3, Z4, Z5 under the revised scheme. Some five thousand one hundred piles and posts in these sections have been cut off the required elevation.

In addition, the concrete superstructure has been placed on sections Z4 and Z5, and the concrete blocks set in position on section Z3.

The construction of cribs at Spadina dock to be used in other sections of the breakwater, was carried on until the middle of December, 1921, when active construction operations were ended for the season. At this time, sixteen 100-foot cribs and six 30-foot cribs were on hand and three hundred and seventeen concrete blocks moulded and stored ready for use during the coming year.

The work during the winter months was confined to the necessary overhauling and repair of plant together with the taking stock of materials on hand.

Eastern Section.—The work in this section under Roger Miller & Sons contract was completed by the removal of the cofferdams constructed at the junction of the turning basin and ship channel walls and the construction of the concrete walls in these two gaps, each approximately forty feet in length.

The Toronto Harbour Commission carried on dredging operations during the fall and have completed the backfill behind the north and west walls of the basin.

General

The work accomplished during the fiscal year is as follows:—

East Pier.—Construction operations were resumed May 1; the contract was completed and final estimate was given October 17. The work accomplished consisted in the reconstruction in concrete of 466 lineal feet of the superstructure of the east pier, eastern channel, from a point 9 inches below zero (elevation 245.0), to a point 6 feet 0 inches above zero and with a width of 30 feet.

Breakwater.—The work of constructing the rubble mound breakwater was resumed April 6 and the work was carried on until November 28, when on account of weather conditions operations were suspended for the season. Up to November 28, 85 per cent of this contract had been completed.

The work accomplished between April 6th and November 28 consisted in placing in position 1,250 lineal feet of mattresses, 60 feet in width, the construction of 1,250 lineal feet of substructure and 950 lineal feet of superstructure.

VICTORIA HARBOUR

(Port McNicoll)

The object of this work was to improve the mooring berths adjacent to the warehouse wharf, and to remove obstructions alongside and adjacent to the westerly wharf. The area over which the obstructions were removed covered a length of 3,450 by a width of 55 feet, and the material consisted of solid rock, granite and limestone boulders, logs and rubbish.

Work was done by day labour and carried out between June 6 and 17, when satisfactorily completed, but there still exists three sections over which the full depth of 24 feet below zero is not available. In order to give the full draught of 24 feet over these sections would mean the carrying on of blasting and dredging operations.

MANITOBA

BIG GEORGE ISLAND

The object of this work was to dredge a harbour of refuge at the Big George island for the protection of passenger-steamers and fishing fleet operating in the northern waters of lake Winnipeg.

The work of the past season consisted in dredging the entrance channel and the inside basin to a governing depth of 5.5 feet below zero of gauge which is 711 above M.S.L. and of the following dimensions:—

Entrance channel on a length of 425 feet and average width of 53 feet and basin 210 feet by 220 feet.

The quantity removed was 13,200 cubic yards, place measurement, consisting of clay, very stiff hard-pan, and containing many large boulders which had to be broken up with dynamite.

P.W.D. dredge No. 205 was employed from June 25 to October 15.

RED RIVER

The object of this work was the maintaining of the channel from the mouth of the Red river into lake Winnipeg.

The work consisted of one cut 3,100 feet long, 140 feet wide with an average cut of 2.5 feet and dredged to approximately 10 feet below zero of gauge which is 711 feet above M.S.L.

The amount of material removed was 40,365 cubic yards, place measure, consisting of clay and river silt.

P.W.D. dredge No. 201 was employed from May 23 to October 24.

SELKIRK SLOUGH

The object of this work was the maintaining of the channel in the Slough from the Red river to the departmental shipyard.

The work consisted in removing shallow spots and the approximate quantity was 3,781 cubic yards, scow measure; material removed was mud and clay: average length, 606 feet; width, 40 feet, and cut, 4.3 feet; dredged to 10 feet below zero of gauge, which is 711 feet above M.S.L.

P.W.D. dredge No. 205 was employed on this work from May 20 to May 31.

THE PAS

Wharf Extension

A contract was let August 29, 1921, for an extension to the wharf. The work consisted of building a pile trestle wharf faced with sheet piling 330 feet long by 20 feet wide.

The work was built in less than two months and was completed in November, 1921.

Dredging

The object of this work was to dredge an approach to and a berth beside departmental wharf.

The work consisted in removing 19,400 cubic yards, scow measure, of hardpan and boulders. Average cut, 7.0 feet; the average depth made was 5.0 feet below zero of gauge which is 845.0 feet above M.S.L.

P.W.D. dredge No. 208 was employed from May 25 to November 1.

The work is carried on under considerable difficulty owing to the sudden and large changes in the level of the Saskatchewan river.

WANIPIGOW RIVER

Removal of Obstructions

The object of this work was to provide means of transportation to Rice Lake mining district and to settlements along the river.

The work consisted in removing sunken logs, fallen trees and other obstructions to navigation over a distance of about 9 miles above the rapids.

The work was done during August and September.

ALBERTA

FORT MCMURRAY

This work consisted in constructing three temporary floating wharves 60 by 14 feet each. These were moored at three different places along the Athabasca and Clearwater rivers in front of Fort McMurray.

The object was to provide accommodation for boats navigating the Athabasca and Clearwater rivers and boats carrying freight and passengers to Fort Norman oil fields.

These wharves were pulled up on the banks at the close of navigation season of 1921.

This work was done by day labour during August.

BRITISH COLUMBIA

ALICE ARM

Alice Arm, Skeena, is situated at the head of Observatory inlet.

A new wharf for which the tender of Mr. W. T. Muse was accepted consists of a creosoted pile wharf 100 by 50 feet provided with freight shed 50 by 24 feet and two ton derrick. The work was commenced November 3, 1921, and completed on January 19, 1922.

BARNSTON ISLAND

A new pierhead was built to this landing. The former structure was 50 by 50 feet with approach 14 by 105 feet and was washed out during the freshet in the river last summer. The new pierhead is 48 by 48 feet with approach 14 by 60 feet; only 15 feet of the old approach being left untouched.

The front of the wharf is in the form of a slipway, 12 by 36 feet to allow of landing at low water. The form of construction is cedar piles 3 by 10 inch joists, 6 by 11 stringers, and 3 by 12 planking with 6 by 6 guard rail. The old shed, 18 by 26 feet was moved from the old wharf to its new position on the new wharf. Such materials as could be salvaged were incorporated in the new structure.

This work was done by the snagboat *Samson* and crew during the period November 3 to 24, 1921.

BOSWELL

Boswell, situated on the east side of Kootenay lake, 16 miles south of Procter.

On August 23, 1921, contract was entered into to construct a floating wharf 40 feet by 80 feet with a floating approach thereto 16 by 224 feet.

Work was started October 1 and completed November 22, 1921. The main wharf was constructed in shelter at Procter and towed to Boswell, where the approach was built, and the whole moored in position.

The contractors were instructed to bind the main float logs by five rows of $\frac{3}{4}$ -inch cable binding, place extra fender strips on the wharf, add a 20-foot apron at upper

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end of approach, and to generally strengthen the wharf over that of the standard design, to withstand heavy seas and winds. This work was performed on a cost plus 10 per cent basis.

The dimensions of the completed work are as follows:—

Main float or wharfhead, 40 by 80 feet; floating approach thereto, 16 by 224 feet; apron at upper end of approach, 16 by 20 feet; and shed, 12 by 16 feet.

CARROLL'S LANDING

Carroll's Landing is on the east bank of the Columbia river, four miles north of Burton.

A contract was entered into for the construction of a floating wharf which called for a main float or wharfhead, 40 by 80 feet with a floating approach thereto, consisting of one 16 by 32 foot section and nineteen 16 by 16 foot sections. The length of the floating approach was reduced by seven 16-foot sections, reducing the amount of contract. Two extra length flotation logs in the approach, four pile braces, two mud sills, the painting of the cutoff top of 62 piles, and a change in the design of the 12 by 16 foot shed were authorized as extras to the contract. Work commenced June 10, and was completed July 21, 1921. The dimensions of the finished work are:—

Main wharfhead, 40 by 80 feet; floating approach, 16 by 224 feet, and shed, 12 by 16 feet.

COURTENAY

The town of Courtenay, Comox-Alberni, is situated on the east coast of Vancouver island and on the Courtenay river, which has its outlet into Comox-harbour, about 2 miles below the town.

A new wharf was built at the end of Walter street with a frontage of 60 feet and average width of 55 feet; a freight shed 15 by 30 feet, slip and ladder were also provided. This wharf is for the accommodation of small coasting vessels and launches coming up the Courtenay river at high water.

COWICHAN BAY

Cowichan Bay, Nanaimo, is situated on the east coast of Vancouver island, about 23 miles north of Victoria.

The old Provincial Government wharf being so far depreciated as to require reconstruction, a new wharf was built on the site of the former one, and is 60 by 40 feet, approach 365 by 14 feet widened at the outer end, freight shed 12 by 24 feet, landing float 20 by 38 feet with gangway 4 by 32 feet. This wharf was constructed entirely of creosoted piling and was built between February 3 and March 2, 1922.

FRASER MILLS

Dredging

The object of this work was to provide sufficient depth alongside the loading wharf of the Canadian Western Lumber Company for the large steamships loading lumber.

The dredging was 565 feet long, with an average width, extending from the wharf out to deep water, of 63 feet, dredged to give a depth of 28 feet at low tide. The materials removed consisted of sand, silt and debris; pumped ashore behind the wharf. The total quantity removed was 6,175 cubic yards.

This work was done by the departmental dredge *King Edward* (305) during the period September 2 to 8, 1921.

It is probable that this work will have to be done again during the next fiscal year as, although the depth is maintained farther out from the wharf, material slips in from under the wharf.

The last dredging done here was in 1919-1920, when 23,176 cubic yards were removed by the dredge *King Edward*.

FRASER RIVER

Steveston Jetty

This work consists of an extension of 3,000 feet to the existing north jetty over the Sandheads at the mouth of the Fraser river.

The existing jetty is 15,800 feet long, and was built in two sections. The first section consisted of 3,100 feet of single bulkhead and 3,800 feet double bulkhead, and was completed in 1913. The second section was 8,900 feet long, consisting of brush mattress and rock mound, and was completed in 1917. Protection was required in 1918 on the one degree curve.

The present contract was entered into November 24, 1921, for the unit prices as follows:—

Brush mattress, in place, \$1.45 per cubic yard, estimated quantity, 10,370 cubic yards.

Quarried rock, in place, \$2.29 per cubic ton, estimated quantity, 20,500 tons.

The work is to be done in six months, dating from November 11, 1921. Actual work did not commence until the beginning of March, 1922, and the work completed up to March 31, is 3,703 cubic yards mattress, and 1,210 tons of rock in place.

McDonald's Bar

The object of this work is to divert the heavy current of the river at this place from the banks of Nicomen Island, which yearly are greatly eroded, resulting in serious loss to the farmers in land and produce.

The total length of channel to be dredged is 2,586 feet, width 150 feet, involving the removal of 189,461 cubic yards. This year there has been completed 820 feet of the channel, and 59,719 yards coarse gravel, place measurement, have been removed.

The channel enters McDonald bar above the site of the heavy erosion on Nicomen island, follows the shoreline through the inner side of the bar, and discharges below the site of the bank erosion.

The work was done by the departmental dredge *King Edward* (305) during the period May 16 to 24, 1921, and September 22, 1921, to January 28, 1922.

A large amount of material was removed by the dredge outside the area of the cut, dredging her way into the cut proper. This channel was 2,174 feet long, 125 feet wide, and involved the removal of 105,770 cubic yards of sand and silt.

North Arm

The object of this work is to provide a channel 10 feet deep at low water, from New Westminster to the Gulf of Georgia. The work done during the present fiscal year consisted in the completion of cuts Nos. 2 and 3. 2,800 feet of cut No. 2 was dredged 150 feet wide to 10 feet at low water, 78,781 cubic yards of sand and silt being removed; 4,800 feet of cut No. 3 was completed, 150 wide to 10 feet at low water, 80,032 cubic yards of sand and silt being removed, making a total of 158,813 yards for this year.

It is estimated that 1,000 feet of cut No. 2 was washed out, involving a yardage of 16,038.

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Up to the present there has been completed cuts No. 1, No. 2, and No. 3, extending from Eburne up river, leaving cuts No. 4 and No. 5 to be completed, with a total length of 5,000 feet. This will complete the dredging from New Westminster to the Gulf of Georgia.

The work was performed by the departmental dredge *King Edward* (305) during the period April 1 to August 6, 1921.

The total length of channel dredged to date is 23,400 feet, 150 feet wide, involving the removal of 574,306 cubic yards.

The dredge *Fruhling* worked from October 12 to October 25 at the mouth of the North Arm, which had shoaled up. There was about 2,000 feet of channel 300 feet wide to be deepened to 10 feet at low tide; the average depth to be taken off was 2.5 feet, 800 feet of this channel was completed, and 30,096 cubic yards of sand were removed.

Shoaling is expected in this channel from time to time, and it is probable that further dredging will be required next year, as well as the completion of that part of this dredging not yet completed. This cut was originally made when the jetty was built in 1915-16. A further cut was made in 1920, by the dredge *Fruhling* (303), at the outer end of this channel, a length of 1,200 feet, width 300 feet, involving the removal of 33,333 cubic yards.

In front of Indian Reserve

This dredging was asked for by the city of New Westminster, between 16th and 18th streets, facing on the North Arm of the Fraser river.

The dredging was started July 12, and completed July 26, and an area 352 feet long by 300 wide was dredged to 16 feet at low tide, and 19,555 cubic yards of material was removed.

The materials were sand and silt. No further dredging will be required here for about four years.

Removal of Submerged Dam at Woodward's Channel.

The dredge *Ajax* worked at the removal of the submerged dam at the head of Woodward's channel from September 12 to September 16, and removed 1,655 cubic yards, scow measurement, of rock, brush and sand, to a depth of 16 feet at low tide, and 450 feet long.

This dam was removed as it was deflecting the current to the north side of the channel, and the bank was eroding at the south end of the dam. A portion was removed during the fiscal year 1920-21, and the current washed out 450 feet of the original dam.

Removal of submerged dam No. 2 (Steveston)

The dredge *Ajax* worked from April 1 to August 16, and from September 19 to November 30, on the removal of submerged dam No. 2, at Steveston, between buoys 17 and 19, and removed 44,945 cubic yards, scow measurement.

The dredging was done to 20 feet at low tide, and the length of the cut was 3,445 feet, average width was 70 feet, and average depth of cut was 8.11 feet.

Sandheads and Woodward's Channel

At various times during the year the dredge *Fruhling* (303), removed 484,524 cubic yards of sand from Woodward's channel, between buoys 25 and 30, at the mouth of the river. This dredging was necessary to maintain the depth of 16 feet at low tide in this channel, and other work done in the main channel consisted in the removal of 52,970 cubic yards between buoys 3 and 5, 7,128 cubic yards between buoys 5 and 7, and 13,572 between buoys 9 and 11, making a total yardage of 558,194 cubic yards removed by the dredge *Fruhling* during the fiscal year.

GABRIOLA ISLAND

Gabriola island, Nanaimo, is situated in the Gulf of Georgia.

A new wharf was built under contract at the site of the former Provincial Government wharf on the west side of the island. The completed work consists of a wharf 60 by 40 feet, approach 54 by 16 feet widened at the rear of the wharf, freight shed 17 by 35 feet, float 24 by 14 with gangway 30 by 4 feet. Work was commenced March 14, and was completed April 20, 1921.

GANGES

The abandonment of the old Dominion Government wharf, which was in a very poor state of repair, was decided upon and an appropriation was made for the rebuilding of the old Provincial Government wharf which is more conveniently located. The work consisted in the construction of a wharf 100 by 50 feet with approach 36 feet in width widened to the rear face of the wharf, freight shed 40 by 25, slip 9 by 30, float 32 by 24 and with gangway 20 by 4 feet. Creosoted piles were used throughout, with the exception of the fender piles. The work was carried out by contract between February 20 and March 28, 1922.

HATZIC

The object of this work was to provide a channel to the Government wharf of sufficient depth for the shipping. The cut is 1,025 feet long, and 110 wide, to 8 feet at low water. It extends from deep water in the river channel to the upper end of the wharf. This work has been wholly completed.

The materials consisted of sand, silt and driftwood debris. The total quantity of dredging amounted to 40,270 cubic yards, including side slopes. This work was done by the suction dredge 305, place measurement only being taken.

The work commenced on August 12 and was completed on August 31, 1921.

The materials were pumped ashore on the north bank of the river behind the wharf.

IOCO

This wharf is located on the north shore of Burrard inlet, between the townsites of Ioco and Sunnyside.

The wharf is of creosoted pile bent and timber construction; the pier head measures 48 by 60 feet (12-foot bents), and the approach is 16 by 345 feet (15-foot bents). There is also a small boat landing float 15 by 40 feet alongside the wharf, with gangway from wharf 4 by 34 feet.

The decking is of 10 by 12 caps, 6 by 11 stringers, 3 by 10 joists, 3 by 12 flooring, with 6 by 8 guard. A hand rail 3 feet high extends along both sides of the approach. The float is of cedar logs, 4 by 12 cross-ties, 2 by 12 planking, and 2 by 4 guard rail. The gangway is of frame construction of 3 by 8 timbers, with 2 by 12 flooring and handrail. A freight shed 14 by 20 feet is built on the pier head.

KINCOLITH

Kincolith, Skeena, is an Indian village at the mouth of the Naas river opposite Arrandale.

The old wharf being beyond repair, tenders were obtained for the construction of a new wharf, and that of Mr. W. T. Muse, of Prince Rupert, amounting to \$7,667.94 was accepted. The work was carried out between August 10 and September 16 and consisted of the construction of a wharf 60 by 40 feet with approach 212 by 12, freight shed 16 by 18, with landing steps and stiff leg derrick.

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KOOTENAY LANDING

Dredging

Work of launching, repairing and conditioning dredge No. 302 was put in hand September 24, and the season's operations of actual dredging at Kootenay Landing were completed March 17. Between March 17 and 31, a skeleton crew was engaged in carrying out a minor overhaul of the plant to recommence dredging at the same place in April.

During the period November 15 to March 17, a total of 24,670 cubic yards of clay, silt and sand were removed from a channel 150 feet wide and an average length of 1,672.5 feet. Dredging was carried to a minimum depth of 12 feet below L.W.L.

Materials were removed by dump scow to deep water one-third mile distant from the outer end of the cut.

LADYSMITH

The old wharf immediately below the railway station having been abandoned, it was decided to build a new wharf to replace the old Provincial Government wharf at a site about a half mile south. Dimensions of the new wharf head are 40 by 80 feet with approach 410 by 16, freight shed 14 by 20, float 16 by 40, with gangway 30 by 4 feet; the remains of the old wharf were also removed.

The work done under contract was commenced August 15 and completed September 30, 1921.

MANSON'S LANDING

This wharf is located on west coast of Cortez island, about 100 miles northwest of Vancouver, and was built to replace the old one taken over from the Provincial Government in 1919.

The new wharf is of creosoted pile bent and timber decking construction. Pier-head 36 by 72 feet (12-foot bents), with landing slip 12 by 24 feet, and landing steps 4 by 34 feet. The approach is 14 by 186 feet (15-foot bents). The decking consists of 10 by 12 caps, 6 by 11 stringers, 3 by 10 joists, 3 by 12 flooring, and 8 by 6 guard rail. The fender piles are of fir, fastened to the cap at the top and to the creosoted longitudinal timber at low water level with 1-inch bolts.

This work was done by contract during the period November 8 to 21, 1921.

NEW WESTMINSTER

On February 10, the dredge *King Edward* deepened the berth alongside the wharf to 15 feet at low tide, and removed 3,110 cubic yards. This work was required to allow the *Samson* and other Government boats to lie there without going aground at low tide. The cut made was about 100 feet long and 70 wide. Material removed was sand and silt.

On October 11, the dredge *Fruhling* deepened the outer end of the above berth by working ahead with the propeller, and the wash deepened it considerably at the outer end, but could not remove the hard packed silt at the inner end. The captain estimated that he moved about 2,000 yards.

PITT LAKE

The wharf at this point was built in 1914. The old wharf and float was used until last year, but had become much filled in owing to deposit of sand and silt at and near the outer end of same. Consequently an addition was constructed to gain access to deep water.

The addition consisted of pier extension 16 by 160 feet, widening old pier 16 by 28 feet, new float 7 by 40 feet, with gangway and slip to pier and float respectively.

The work was performed under contract and was started September 26, and completed October 14 last.

PITT LAKE (UPPER)

Dredging

The usual floods of last September and October caused a large amount of sediment, carried by the Upper Pitt river, to be deposited around the extension to the Pitt Lake wharf. During these floods, the river changed its course and washed out a total of 270 lineal feet of the approach to the wharf. Repairs to the approach were carried out, and the new river channel through same filled in with material excavated by the dredge at the wharf extension. Brush was used at this break, and the dredged material dumped thereon. Filling was also made by the dredge along the balance of approach on the west side, to protect it against further erosion.

The departmental dredge *King Edward* did this work, starting February 16 and finishing March 3, 1922. Survey shows a total of 22,120 cubic yards, place measurement, were removed. Nature of material removed was sand, silt and gravel.

The dimensions of the work accomplished within the prescribed depth are about 320 feet each way; area of same, 44,500 square feet.

SANDSPIT

Sand-spit, Skeena, is a settlement on Skidegate inlet, at the northeasterly end of Moresby island, Queen Charlotte group.

Construction, under contract, was commenced September 19, completed October 29, 1921, and consisted of a wharf head 72 by 36 feet with freight shed 18 by 12, approach 284 by 12 feet widened at the outer end. The wharf-head and about half of the approach are of creosoted piling, the remainder being of untreated piling.

SQUAMISH

This dredging was necessary to provide berthing accommodation for the steamers calling at this port.

Dredging was first done May 9, 1921, by the departmental dredge *Fruhling* (303), when 900 cubic yards of sand (hopper measurement) were removed.

Owing to the shoaling up of the berths, resulting from the heavy freshets of October, 1921, when the Squamish river changed its course, further dredging was found to be necessary. This dredging was of great importance, as the Pacific Great Eastern Railway wharf had been washed out and the Government wharf provided the only landing for passengers and freight.

The departmental dredge *Fruhling* completed this dredging March 31, 1922, removing 1,089 cubic yards of sand (hopper measurement).

SQUIRREL COVE

Work was done on the construction of a new float 26 by 35 feet, and three 50-foot sections of approach, 150 feet—to replace the old float. The float was built at Lund and towed to its anchorage; it is built of cedar logs, cross ties, 2 by 12 planking and guard rail, the approach being of the same construction in 50-foot sections, 6 feet wide. The work was done by day labour during the periods December 12-23, 1921, and January 9 to 13, 1922.

STEWART

Tenders were obtained for a timber addition, 30 by 50 feet, to the new wharf built in 1920, together with extension to the existing freight shed 20 by 30 feet, and alterations to the existing shed. A tender was accepted and the work was carried out during March, 1922.

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STEWART RIVER

The work of improvement consisted almost entirely of removing large submerged boulders which menace navigation in that part of the river between the town of Mayo and a point seventeen miles down stream from Mayo. The work was done during the month of August, after which weather conditions resulting in a high stage of water, rendered continuance of work inadvisable for a time. On September 18, the work was recommenced, but owing to the sinking of the vessel engaged on the work during the first day, it was impossible to continue work further that season.

As the only plant available was that owned by the British Yukon Navigation Company (White Pass and Yukon Route) arrangements were made for the Company to carry out the work at actual cost.

The work accomplished consisted chiefly of the removal of twenty large boulders, which had to be drilled and blasted, in addition to which a considerable number of smaller boulders were picked up and moved out of the channel. These boulders were of tough granite, difficult to drill and varied in size from 35 cubic yards to 8 or 10 cubic yards. Certain dangerous boulders at the side of the navigable channel were buoyed and doubtful reaches of the river were swept for possible obstructions, and where these were encountered they were removed.

As a result of the work done, the stretch of river between Mayo and the mouth of the McQuestion river, 68 miles in length, is now in such condition as to require very little future attention.

The chief object of the improvement work was for the immediate and urgent rendering safe of the Stewart river for navigation to Mayo, this being required as a result of the rapid development of mining interests in that locality.

VICTORIA

The reports of previous years work carried out in Victoria harbour are fully described in the annual reports for the years 1913 to 1918 inclusive, operations being suspended on March 31, 1918, owing to war conditions.

Representations were made by the Puget Sound Lumber Company for the provision of additional depth fronting their loading wharf with the object of allowing vessels engaged in the export trade to be loaded at their mill.

The departmental dredge *Ajax* dredged an area 350 by 80 feet to a depth of 25 feet below low water, except at the northerly end of the basin where a slightly lesser depth was obtained owing to silting in of soft material from underneath the wharf subsequent to the departure of the dredge. The nature of the material removed was clay and silt. The work was carried out in the interval July 21 to 26, 1921. The quantity of material removed was 3,272 cubic yards, place measurement.

Discovery Rock—Removal of Rock

It was decided to replace the old swing bridge used by the Esquimalt and Nanaimo Railway Company across Victoria harbour by a new and modern bridge having a single leaf bascule with plate girder approach span for both rail and highway purposes, having a 30-foot roadway with railway tracks and an 8-foot sidewalk. On completion, a clear channel at the bascule opening 120 feet in width will be given with a clearance of 29 feet above low water mark. This bridge was designed in such manner that construction could be carried out without interference with the existing bridge and this is the governing feature in the position of the bascule opening.

With the object of improving the southerly approach to the new bridge the removal of Discovery rock, which lies on the southwesterly side of the approach channel, was commenced during the fiscal year 1916-17 and continued during the

fiscal year 1917-18. The quantity of rock removed was 2,463 cubic yards scow measurement. On March 31, 1918, the departmental plant was laid up owing to war conditions.

The further removal of rock at this point was subsequently authorized and drilling operations commenced at the northerly end of the rock on February 16, by departmental drill plant No. 2, and drilling operations were continued until August 16, 1921. An estimated quantity of 2,509 cubic yards, was blasted. The broken rock (gneiss) was removed by dredge *Ajax* as follows: place measurement, 2,259 cubic yards; scow measurement, 2,299 cubic yards rock and 1,562 cubic yards silt and sand, giving a resultant expansion factor of 70 per cent.

The condition of the work on March 31, 1922, was such that submarine drilling operations were required at various points to be followed by further work by dredge *Ajax*, in order to complete the work.

Hospital Rock

The removal of the above rock was commenced during the fiscal year 1916-17 following the removal of Beaver and Tuzo rocks in its vicinity. This work resulted in the provision of additional width of 80 feet being given at the easterly side of Hospital rock. The work was continued during the fiscal year 1917-18, a further additional width of 80 feet being obtained. The quantity of rock removed was 7,240 cubic yards, scow measurement.

The object of the work is to provide additional space for the Canadian Pacific Railway and Grand Trunk Pacific steamers when manoeuvring before leaving the harbour.

The departmental drill plant commenced work August 5, 1921, at the completion of the drilling at Discovery rock, and engaged until March 31, 1922, and an estimated quantity of 4,618 cubic yards were blasted and the broken rock was subsequently removed by departmental dredge *Ajax*. Additional submarine drilling at points above grade will be required, followed by further work of dredge *Ajax* in order to complete the work authorized. The nature of the material removed was gneiss rock, the quantities being as follows: Place measurement, 1,930 cubic yards; scow measurement, 3,278 cubic yards rock and 115 cubic yards silt, the resultant expansion factor being 75 per cent.

The above work when completed will give an additional width of 80 feet to the navigable channel. The further removal of Hospital rock should be continued in a westerly direction when circumstances permit.

Marine Department's Wharf

Additional depth fronting the Marine Department's wharf for the accommodation of Government vessels berthing thereto, was carried out by departmental dredge *Ajax* in the interval July 27 to 30, 1921, and the following quantity of material consisting of clay and silt removed: Place measurement, 1,323 cubic yards; scow measurement, 1,597 cubic yards, giving a resultant expansion factor of 20 per cent.

A depth of 20 feet at low water was given for the greater portion of an area 420 feet long and 40 wide, slightly lesser depths being given at points where the British Columbia Telephone Company's cables prevented this being done.

Turning Basin, Area "A"

Deepening the turning basin used by vessels of the Canadian Pacific Railway and Grand Trunk Pacific Railway when going astern when leaving the wharves was commenced by departmental dredge *Ajax* December 12, 1921, and by March 31, 1922, the work was 54 per cent completed. The quantity of material, consisting of clay and silt, removed is as follows: Place measurement, 40,824 cubic yards; scow measurement, 57,328 cubic yards, giving a resultant expansion of 40 per cent.

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A depth of 25 feet at low water level is being given over an area of irregular shape about 1,400 feet in length and about 400 in width.

In order to complete the above improvement the removal of an additional quantity of about 48,000 cubic yards, scow measurement, is required.

WILLIAMS HEAD

Quarantine Station

The roadway to the station was repaired and arrangements made with the British Columbia Government to take over and maintain the road as a public highway provided that portion be fenced by the Dominion Government, therefore, 531 rods of wire fencing and eight gates at road intersections were erected and work was completed April 6, 1922.

Water line extension.—The residents of Metchosin petitioned for a branch extension of the quarantine water main, and a 2-inch main 800 feet in length, was laid for this purpose.

New Station main.—The new service to the station is giving every satisfaction and is for a five-year period being maintained by the city of Victoria, whereby the revenue collected from the branch services to consumers along the line is divided between the Department and the city. This arrangement is proving advantageous to the department as, when the consumption approximates one-half million gallons the cost to the department for water consumed at the quarantine station has amounted to less than \$10 and has resulted, in some months, to the payment of credit balances to the department by the city.

Dolphins.—The large dolphin at the easterly end of the main wharf, which was of untreated piling, was renewed by a dolphin having two alternate rows of vertical piling 28 feet apart braced together with 12 by 12 timbers and supported by 9-inch brace piles. Creosoted timber and piles were used throughout and the dolphin was secured to the shore by means of three cables. The work was carried out by contract in April, 1922.

A new dolphin at the easterly end of the coal wharf consists of nine creosoted piles and is connected with the coal wharf by means of a plank walk, 3 feet wide, to allow of the use of the dolphin for mooring purposes by the steamer *Madge*. The work was carried out by contract during March, 1922.

DREDGING OPERATIONS

CONTRACT DREDGING AND DREDGING BY DAY LABOUR, 1921-22

Bear River, N.S.—

Under agreement with Thelbert Rice.

Rock and débris.

Amount passed for payment, \$125.

Work commenced August, 1921; completed, August, 1921.

Object of work: Removal of obstructions—rock and débris along river.

Belleville, Ont.—

Under contract No. 13,357, with Frontenac Dredging Co., Ltd., dredge *St. Lawrence*.

Quantity removed: 31,682 cubic yards place measurement at 65 cents per cubic yard, Class B.

Amount passed for payment, \$20,593.30; inspection, \$370; total expenditure, \$20,963.30.

Belleville, Ont.—Concluded.

Work commenced, August 29, 1921; completed, November 19, 1921.

Object of work: Dredging basin at Government wharf to grade depth of 12 feet.

Under agreement, with Frontenac Dredging Co., Ltd., dredge *St. Laurence*.

Seven and one-half hours at \$30 per hour.

Amount passed for payment, \$225.

Work commenced October 24, 1921; completed October 24, 1921.

Object of work: Removal of obstructing pile of stones and other material under the south opening of the swing span of the Belleville-Prince Edward County bridge.

Carillon, Que.—

Under days' labour, with District Engineer J. L. Dansereau.

Quantity removed: Six boulders.

Amount passed for payment, \$235.19.

Work commenced October 3, 1921; suspended for season, October 19, 1921.

Object of work: Removal of obstructions in Ottawa river, near Carillon, Que., and survey of channel.

Collin's Bay, Ont.—

Under contract No. 13493, with Frontenac Dredging Co., Ltd.

Quantity removed: 68 piles at \$3 per pile.

Amount passed for payment, \$204; inspection, \$10; total expenditure, \$214.

Work commenced, December 8, 1921; suspended for season, December 9, 1921.

Object of work: Removing old pile and crib piers.

Courtenay River, B.C.—

Under days' labour with District Engineer, J. P. Forde.

Quantity removed: 35 snags, 15 pile stumps, and 4 boulders.

Amount passed for payment, \$424.90.

Work commenced August 17, 1921; completed November 14, 1921.

Object of work: Removal of snags between Highway bridge and Beacon 13—to facilitate navigation of small coasting vessels going to Courtenay, and the navigation of log booms and launches using the river.

Eagle Head, N.S.—

Under days' labour with District Engineer T. J. Locke.

Amount passed for payment, \$332.78.

Work commenced June, 1921; completed August, 1921.

Object of work: To increase opening in breakwater to 20 feet long, to allow sand to silt out.

First Narrows, B.C.—

Under days' labour with District Engineer C. C. Worsfold. Snagboat *Samson*.

Quantity removed: 296 boulders.

Amount passed for payment, \$930.09.

Work commenced May 26, 1921; suspended for season March 30, 1922.

Object of work: Removal of shoal spots near Parthia shoals.

Fraser River, B.C.—

Under days' labour with District Engineer C. C. Worsfold.

Quantity removed: 1,228 trees and snags.

Amount passed for payment, \$1,793.18.

Work commenced June 10, 1921; completed July 30, 1921.

Object of work: Removal of snags from upper navigable portion of Lower Fraser river.

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Goderich, Ont.—

Under contract No. 13288 with Wm. Birmingham. Dredges *Goderich* and *Menesetung*.

Quantity removed: 38,000 cubic yards, scow measurement at 45 cents per cubic yard. Class B. Sand, gravel, hardpan.

Amount passed for payment, \$17,400; inspection, \$1.102; total expenditure, \$18,502.

Work commenced, July 28, 1921; completed November 16, 1921.

Object of work: Widening channels and improving berthing conditions in Goderich harbour to general depth of 22 feet.

Grande Anse, N.B.—

Under contract No. 12891 with Miramichi Dredging Co., Ltd. Dredge *Fowle*.

Quantity removed: 2,852.71 cubic yards scow measurement at 63½ cents per cubic yard Class B, Sand and rock.

Amount passed for payment, \$1,811.47; inspection \$366.75; total expenditure \$2,178.22.

Work commenced June 18, 1921; suspended for season September 17, 1921.

Object of work: Dredging basin 3 to 4½ feet. L.W.O.S.T. and providing facility for fishing vessels to land fish at all tides and to afford shelter.

Wabassa Park (Hamilton), Ont.—

Under agreement with Canadian Engineering & Contracting Co., Ltd.. Dredge, Derrick scow.

Quantity removed: 5,665.48 cubic yards, place measurement at 65 cents per cubic yard Class B, sand and silt.

Amount passed for payment, \$3,682.56.

Work commenced July 25, 1921; completed September 27, 1921.

Object of work: Dredging approach basin on southwest side of wharf to accommodate larger craft.

Hatfield's Point, N.B.—

Under agreement with J. S. Gregory. Dredge *Keta*.

Quantity removed: 5,472 cubic yards. scow measurement at 33 cents per cubic yard. Class B. Mud, sand and clay.

Amount passed for payment, \$1,805.76; inspection, \$6.36; total expenditure, \$1,812.12.

Work commenced June 17, 1921; completed June 29, 1921.

Object of work: To clear to depth of 11 feet channel in Belleisle bay leading to public wharf at Hatfield's Point, N.B.

Inverness, N.S.—

Under day's labour with District Engineer C. E. W. Dodwell.

Quantity removed: 3,768 cubic yards, place measurement, class B, sand.

Amount passed for payment, \$2,032.65.

Work commenced September 14, 1921; completed October 31, 1921.

Object of work: Dredging entrance channel to 6 feet L.W. and 40 feet wide, to accommodate fishing boats during mackerel season.

Kingston, Ont.—

Under contract No. 12,868 with Frontenac Dredging Co., Ltd. Dredge *St.*

Lawrence.

Quantity removed: 15,692 cubic yards, place measurement, at 50 cents per cubic yard. Class B.

Amount passed for payment, \$7,846; inspection, \$192; total expenditure, \$8,038.

Work commenced, July 4, 1921; completed August 8, 1921.

Object of work: Dredging above La Salle Highway bridge, to 16 feet below low water.

Kingston, Ont.—

Under contract No. 13,493, with Frontenac Dredging Co., Ltd. Dredge St. Lawrence.

Quantity removed, 3,740 cubic yards, place measurement, at \$1 per cubic yard.

Class B.

Amount passed for payment, \$3,740; inspection, \$110; total expenditure, \$3,850.

Work commenced November 11, 1921; suspended for season, December 5, 1921.

Object of work: Dredging to 12 feet below low water at foot of Queen and

Princess streets and to 10 feet at south side of wharf at foot of Brock street.

Miramichi River—Horseshoe and Lump (Survey)—

Under day's labour with District Engineer Geoffrey Stead.

Amount passed for payment, \$589.02.

Work commenced June 2, 1921; completed July 6, 1921.

Object of work: Survey of Horseshoe and Lump, Miramichi bay, N.B.

Northwest Miramichi River, N.B.—

Under day's labour with District Engineer Geoffrey Stead.

Quantity removed: 27 logs, snags.

Amount passed for payment, \$33.55.

Work commenced May 7, 1921; completed June 11, 1921.

Object of work: Removal of snags and other obstructions from Northwest Miramichi river.

Miramichi River and Inner Bay, N.B.—

Under day's labour with District Engineer Geoffrey Stead.

Amount passed for payment, \$1,633.71.

Work commenced June 8, 1921; suspended for season, March 13, 1922.

Object of work: To co-operate with Hydrographic survey, to examine and chart river conditions for benefit of navigators.

Monetville, Ont.—

Under day's labour with District Engineer R. deB Corriveau.

Quantity removed: 108 stones, 45 cubic yards rock.

Amount passed for payment, \$310.35.

Work commenced, July 25, 1921; suspended for season March 31, 1922.

Object of work: Removal of boulders in Monetville rock cuts.

Port au Persil, Que.—

Under day's labour with District Engineer A. G. Sabourin.

Amount passed for payment, \$348.14.

Work commenced August 10, 1921; completed September 2, 1921.

Object of work. Removal of boulders and rock from entrance to harbour to allow free passage of boats.

Port Burwell, Ont.—

Under day's labour with District Engineer H. B. R. Craig.

Amount passed for payment, \$149.

Work commenced March 20, 1922; suspended for season March 31, 1922.

Object of work: Repairs to scow for test borings at Port Burwell, Ont.

Port McNicoll, Ont.—

Under day's labour with District Engineer J. M. Wilson.

Quantity removed: 48 tons measurement. Solid rock, clay, boulders, logs, hand-trucks, rubbish.

Amount passed for payment, \$1,843.25.

Work commenced June 4, 1921; completed June 17, 1921.

Object of work: Removal of obstructions to improve mooring berths adjacent to warehouse wharf.

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Sault Ste. Marie, Ont.—

Under contract No. 13291 with Soo Dredging and Construction Co., Ltd., derrick No. 24.

Quantity removed: 7,458 cubic yards, scow measurement. Classes A and B. Boulders, gravel and broken rock.

Amount passed for payment, \$20,931.25; inspection, \$3,537.17; total expenditure, \$24,468.42.

Work commenced May 25, 1921; completed November 9, 1921.

Object of work: Removal of obstructions in St. Mary's river to a depth of 21.5 feet at low water level.

St. Andrews, Que.—North River—

Under days' labour, with District Engineer J. L. Dansereau.

Quantity removed: 118 pieces of old trees and 1 large boulder.

Amount passed for payment, \$254.40.

Work commenced September 19, 1921; completed October 8, 1921.

Object of work: Removal of snags between Ottawa river and Government wharf at St. Andrews, Que., and resurvey of channel.

St. John River, N.B.—

Under agreement with R. Roberts' Sons.

Quantity removed: 60 poles.

Amount passed for payment, \$40.

Work commenced June 23, 1921; completed June 23, 1921.

Object of work: Removal of fishing weir.

St. John River and Branches and Salmon River, N.B.—

Under days' labour, with District Engineer Geoffrey Stead.

Quantity removed: 290 logs, trees, etc, and 31 pieces plank.

Amount passed for payment, \$437.28.

Work commenced July 18, 1921; completed September 8, 1921.

Object of work: Removal of snags.

St. John, N.B.—Deep Water Berths (Sand Point Slip)—

Under contract No. 13466, with J. A. Gregory, dredge *Beacon Bar*.

Quantity removed, 31,398.68 cubic yards scow measurement at 40 cents per cubic yard, Class B, mud.

Amount passed for payment, \$12,583.38; inspection, \$494.38; total expenditure, \$13,077.76.

Work commenced October 27, 1921; completed November 24, 1921.

Object of work: Dredging to 30 feet below low water.

St. Ours, Que.—

Under days' labour, with District Engineer J. T. Girard.

Amount passed for payment, \$47.75.

Work commenced April 20, 1921; completed April 26, 1921.

Object of work: Examination of conditions in Richelieu river in the vicinity of St. Ours dam.

Thames and Sydenham Rivers.—

Under days' labour with District Engineer H. B. R. Craig.

Quantity removed: 2,860 pieces, stumps, roots, etc.

Amount passed for payment, \$2,575.55.

Work commenced June 15, 1921; suspended for season September 15, 1921.

Object of work: Removal of snags from:—

1. East Sydenham River—

(a) from upper end of Well's Bend to 3 miles down river.. 590 pieces

(b) from Tupperville to Wallaceburg.. . . . 110 "

2. North Branch Sydenham River—Beecher to 1 mile above

Wallaceburg.. . . . 740 "

3. Thames River—Prairie Siding to mouth of river.. . . . 1,420 "

2,860 "

Tiffin, Ont.—

Under days' labour, with District Engineer J. M. Wilson.

Quantity removed: 9 tons, 3 large boulders.

Amount passed for payment, \$314.

Work commenced June 1, 1921; completed June 3, 1921.

Object of work: Removal of boulders near Elevator wharf of Grand Trunk Railway.

Verdun—La Tortue, Que.—

Under days' labour with District Engineer J. L. Dansereau.

Quantity removed: 408 boulders, 400 cubic yards clay, sand and gravel.

Amount passed for payment, \$1,990.85.

Work commenced April 13, 1921; completed September 30, 1921.

Object of work: Removal of boulders and ridges and widening channel to give safer passage to ferry boat between Verdun—La Tortue, Que.

Windsor, N.S.—

Under day's labour with district engineer C. E. W. Dodwell.

Quantity removed: 920 cubic yards mud and 738 of rock.

Amount passed for payment, \$2,235.89.

Work commenced July 4, 1921; completed December 10, 1921.

Object of work: Removal of silt and reefs—*Mud* from in front of Government wharf; *rock* from 500 to 700 feet north of Government wharf.

Winnipegosis, Man.—

Under day's labour with district engineer St. Laurent.

Amount passed for payment, \$171.

Work commenced July, 1921; completed August, 1921.

Object of work: Survey at Winnipegosis and points on lake.

Yarmouth, N.S.—

Under agreement with District Engineer C. E. W. Dodwell. Under private agreement with Jas. V. Purdy.

Amount passed for payment, \$350.

Work commenced October 17, 1921.

Object of work: Repairs to Lobster Rock beacon.

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CALENDAR YEAR DEPARTMENTAL DREDGING, 1921—*Continued.*

MARITIME PROVINCES

Dredge	Date	Locality	Material	Quantity Cubic Yard	Cost Locality	Total Expendi- ture	Cost Per cu.yd
					\$ cts.	\$ cts.	\$ cts.
"No. 1".....	20 April-5 May and 3-10 June and 30 Sept.- 12 Dec.	Liverpool, N.S. (Inner Chan- nel).	Soft mud, mud, saw- dust, fine sand.	58,308	\$38,202 19		0-655
"No. 1".....	6 May-2 June...	Liverpool, N.S. (Bar).....	Sawdust, fine sand..	16,570	15,061 79		0-908
"No. 1".....	11 June-27 Aug..	Campbellton, N.B. (Oak Pt. Shoal).	Sand	74,217	40,598 38		0-547
"No. 1".....	29-31 August....	Campbellton, N.B. (Traverse)	Sand	6,080	3,286 22		0-540
"No. 1".....	1-23 Sept.....	Campbellton, N.B. (Govt. wharf).	Sand, gravel, small rock.	40,513	19,511 87		0-481
"No. 1".....	24-29 Sept.....	Campbellton, N.B. (South dock).	Soft mud.....	8,250	5,134 71		0-622
				203,938		\$121,795 16	0-597
"No. 2".....	13-23 May.....	Douglastown, N.B. (Lumber Co's wharf).	Mud, sand.....	8,580	\$ 3,829 22		0-446
"No. 2".....	24-31 May.....	Newcastle, N.B. (Robertson's wharf).	Rock, logs, sticks...	3,980	2,745 48		0-690
"No. 2".....	1-7 June.....	Nelson, N.B. (Burchill's wharf).	Rocks.....	1,011	1,878 49		1-858
"No. 2".....	8 June-20 Sept..	Miramichi river (Grandoon Flats).	Clay, sand, rock, oyster bed.	63,095	26,082 05		0-413
"No. 2".....	21 Sept.-4 Nov..	Miramichi River (NorthWest)	Hard sand, clay, logs, rock.	24,610	16,111 62		0-655
				101,276		\$50,646 86	0-500
"No. 3".....		Not in commission.....				19,844 88	
"No. 4".....	23 June-13 July..	New Carlisle, P.Q. (Govt. wharf).	Sand	10,942	\$ 6,845 16		0-625
"No. 4".....	14 July-3 Sept. 7- 19, Sept. 21 Oct.-11 Nov.	Bathurst, N.B. (Tête à Gouche River).	Mud, sand, clay....	39,272	29,192 62		0-743
"No. 4".....	5-6 Sept.....	Bathurst, N.B. (Bathurst Lumber Co's. wharf, Mill No. 1.)	Clay.....	380	603 99		1-589
"No. 4".....	20 Sept.-1 Oct., Oct. 6-20.	Bathurst, N.B. (Pulp mill wharf).	Silt and mud.....	12,724	8,791 34		0-691
"No. 4".....	Oct. 3-5.....	Bathurst, N.B. (Bathurst Lumber Co's wharf, Mill No. 2).	Silt and mud	2,088	1,543 52		0-739
				65,406		\$46,976 63	0-718
"No. 5".....		Not in commission.....				24,156 61	
"No. 9".....	April 26-May 25 and June 9.	Charlottetown, P.E.I. (Marine wharf).	Mud, sand, rock....	17,400	\$6,353 37		0-365
"No. 9".....	May 26-June 8...	Charlottetown, P.E.I. (Pow- nal wharf).	Mud, clay, sand....	7,790	3,127 81		0-401
"No. 9".....	June 10-July 9...	Charlottetown, P.E.I. (Bruce Stewarts wharf).	Mud, clay, sand, rock.	13,300	4,512 52		0-339
"No. 9".....	July 11-28-Aug. 18-23, Aug. 26.	Murray River (Channel).....	Soft mud, sand.....	16,490	4,854 63		0-294
"No. 9".....	July 29-Aug. 17- Aug. 24-25.	Murray River (Prowse wharf)	Sand, gravel, shell rock.	12,470	4,756 88		0-381
"No. 9".....	Aug. 27-29.....	Murray River (Becks wharf).	Sand, rock.....	1,050	586 47		0-558
"No. 9".....	Aug. 30-Oct. 22.	Victoria, P.E.I. (Channel and basin).	Sand, mud, clay....	17,030	8,438 58		0-495
"No. 9".....	Oct. 24-Nov. 22.	Charlottetown, P.E.I. (Full's and Ferry wharf).	Mud, brick clay, rocks.	13,625	5,897 23		0-433
"No. 9".....	Nov. 23-Dec. 15	Charlottetown, P.E.I. (Lord's wharf).	Mud, timber, bal- last, logs, rock.	12,080	4,593 98		0-380
				111,235	\$43,121 47		0-387
"No. 10".....		Not in commission.....				\$ 219 80	
"No. 11".....		Not in commission.....				5,501 99	
"No. 12".....		Not in commission.....				2,687 78	
"No. 13".....	May 4-11.....	Sydney, N.S. (Quarantine wharf).	Ledge rock, mud.	1,543	\$ 1,957 60		1-262
"No. 13".....	May 12-31.....	Sydney, N.S. (Whitney pier)..	Rock, clay, mud, boulders.	7,979	6,816 65		0-854
"No. 13".....	June 1-7.....	Sydney, N.S. (Crawling's creek).	Soft mud, sand, gravel.	3,783	1,747 86		0-462
"No. 13".....	June 8.....	Sydney, N.S. (C.B. Electric Co.'s ferry wharf).	Coal and ashes.....	50	34 96		0-699
"No. 13".....	June 9-July 28...	Glace Bay (Bar and channel)..	Sand, silt, soft mud, logs.	29,226	10,242 47		0-351
"No. 13".....	July 29, Aug. 10, Aug. 14-19.	Little Bras d'Or (Coastal Coal Co. pier).	Sand, mud, rock....	5,929	2,691 70		0-454
"No. 13".....	Aug. 11-13, Aug. 20, Sept. 7.	Little Bras d'Or (Jesso's point)	Sand, mud.....	18,099	5,977 68		0-330
"No. 13".....	Aug. 25.....	Little Bras d'Or (Bras d'Or Mine Co. pier).	Mud, rock.....	708	69 91		0-987

CALENDAR YEAR DEPARTMENTAL DREDGING, 1921—Continued.

MARITIME PROVINCES

Dredge	Date	Locality	Material	Quantity Cubic Yard	Cost Locality	Total Expendi- ture	Cost Per cu.yd.
					\$ cts.	\$ cts.	\$ cts.
"No. 13".....	Sept. 8-Oct. 15.	Shunacadie, N.S. (Bar and channel).	Sand, gravel, mud, clay.	29,670	10,277 42		0.34
"No. 13".....	Nov. 12-18.....	St. Peters, N.S. (Narrows)....	Clay, rock.....	2,826	2,796 53		0.989
"No. 13".....	Oct. 17-Nov. 11	St. Peters, N.S. (Beaver narrows.)	Rock, clay, boulders	11,933	8,599 51		0.720
				111,746		\$51,212 29	0.458
"No. 15".....	Spt. 12-Dec. 21.	Eastern Passage, N.S.....	Sand, gravel.....	4,466		\$ 4,027 25	0.901
"No. 115".....	April 20-May 25, May 27-July 25, Oct. 27-Dec. 9.	Yarmouth, N.S. (Bug Light).	Rock, clay, hard sand, boulders.	14,159	\$28,427 93		2.008
"No. 115".....	May 26-July 26, Sept. 12, Dec. 10-16.	Yarmouth, N.S. (Evangeline wharf).	Mud, hard clay, rock.	34,578	24,263 88		0.701
"No. 115".....	Sept. 13-Oct. 18.	Yarmouth, N.S. (Bar).....	Mud and sand	14,979	11,360 41		0.758
"No. 115".....	Oct. 19-Oct. 26.	Yarmouth, N.S. (Clement's wharf).	Mud.....	3,040	2,153 64		0.708
				66,756	\$66,205 86		0.992
Stone L. No. 1.....		Not in commission.....				1,300 30	
Scow No. 104.....		Repairs				12,427 73	
Scow No. 107.....		Repairs.....				3,676 31	
Scow No. 157.....		Repairs.....				5,433 52	
Coal Barge.....		Repairs.....				625 17	
Water Scow.....		Repairs.....				3 75	
Printing, stationery, advertising.						451 07	
				Grand	Total.....	\$460,314 43	

Credit for rental or sale of plant, not taken into consideration in expenditure.

ONTARIO AND QUEBEC

"Q. & R.No.1"	April 13-June 8.	Kingsville, Ont. (Wharf)....	Hard sand.....	40,122	\$10,173 78		0.253
"Q. & R.No.1"	June 9-17 and Aug. 3-13.	Leamington, Ont.....	Clay, sand.....	7,107	1,380 05		0.194
"Q. & R.No.1"	June 18-July 9...	Jeannette's Creek, Ont. (Mouth Thames river).	Clay, sand.....	33,166	0,091 94		0.183
"Q. & R.No.1"	July 11-Aug. 2...	Chatham, Ont.....	Hard sand, clay, gravel.	21,252	4,666 88		0.219
"Q. & R.No.1"	Aug. 15-Sept. 10.	Port Dover, Ont.....	Hardpan, sand, loose rock.	15,566	3,795 73		0.243
"Q. & R.No.1"	Sept. 12-Nov. 17	Port Stanley, Ont.....	Hard sand, clay...	42,024	8,742 62		0.208
				159,237		\$34,851 00	0.218
"No. 102".....		Not in commission.....				97 40	
"No. 103".....		Not in commission.....				5,826 31	
"No. 109".....		Not in commission.....				4,826 02	
"No. 110".....	May 30-Sept. 30.	Rimouski, Que.....	Sand, clay, hardpan.	122,997		71,724 95	0.583
"No. 112".....		Not in commission.....				745 40	
"No. 116".....		Not in commission.....				11,094 82	
"No. 117".....	April 1-Aug. 12 and Sept. 14- Dec. 14 and Mar. 23-31, 22	Port Burwell, Ont.....	Sand, silt, mud, slush, gumbo, quick sand, red clay.	244,696	47,551 25		0.194
"No. 117".....	Aug. 13-Sept. 13.	Port Stanley, Ont.....	Stone cribwork, mud, slush, sand, gravel, clay.	25,455	6,247 88		0.245
				270,151		\$53,799 13	0.19
"No. 118".....		Not in commission.....				357 02	
"No. 119".....		Not in commission.....				1,331 41	
"No. 120".....		Not in commission.....				959 15	
"No. 121".....		Not in commission.....				2,326 53	
"No. 123".....	April 27-June 7..	Louiseville, Que. (Main Channel and Govt. wharf).	Sand, clay.....	33,165	8,629 11		0.260
"No. 123".....	June 30-Aug. 3...	St. Maurice River, Que. (Tide-water Shipbuilding Co. wharf).	Sand, clay....	29,700	6,611 14		0.222
"No. 123".....	Aug. 4-Oct. 21...	Batiscan, Que. (Govt. wharf).	Hard sand.....	69,650	19,336 44		0.277
"No. 123".....	Oct. 22-Nov. 18.	Doucet's Landing (Govt. wharf).	Hard sand, clay, stone.	17,900	5,022 36		0.280
				150,415		\$39,599 05	0.263
"Harricana".....	June 20-Oct. 18.	Lake Demontigny, Que.....	Hard clay.....	16,837		14,981 58	0.889
"Spare Scows".....						640 25	
"Spare Tugs".....						2,030 90	
Victoria Island Ship Yard.		Maintenance, Cont. repairs.....				7,627 26	
Miscellaneous ..		Telegrams, printing, etc.....				3,371 38	
				Grand Total.....		\$256,189 56	

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CALENDAR YEAR DEPARTMENTAL DREDGING, 1921—*Continued.*

MANITOBA, SASKATCHEWAN AND ALBERTA

Dredge	Date	Locality	Material	Quantity Cubic Yard	Cost Locality	Total Expendi- ture	Cost Per cu.yd.
					\$ est.	\$ cts.	\$ cts.
"No. 201".....	May 23-Oct. 21..	Red River, Man. (Mouth).....	Sand, clay.....	40,365	\$12,408 00	.....	0.307
"No. 201".....	Oct. 22-Oct. 28..	Selkirk, Man. (Repairs slip)...	Mud, silt.....	680	909 99	.....	1.338
				41,045	.....	\$13,317 99	0.324
"No. 202".....	.....	Not in commission.....	.....	.....	.....	911 24	.....
"No. 204".....	.....	Not in commission.....	.....	.....	.....	913 15	.....
"No. 205".....	May 20-31.....	Selkirk Slough, Man.....	Mud, silt.....	3,831	\$2,425 54	.....	0.633
"No. 205".....	June 1-Oct. 10..	George Island, Man.....	Hard sand, boulders	13,200	17,172 59	.....	1.300
				17,031	.....	\$19,598 13	1.500
"No. 208".....	May 25-Oct. 9, Oct. 18-Nov. 1	Le Pas River, Man.....	Clay, boulders.....	18,600	12,104 71	.....	0.650
"No. 208".....	Oct. 10-17.....	The Pas, Man. (Shelter basin).	Fine sand.....	1,850	1,205 03	.....	0.651
				20,450	.....	\$13,309 74	0.650
"No. 210".....	.....	Not in commission.....	.....	.....	.....	1,581 79	.....
"No. 201".....	.....	New hull under construction..	.....	.....	.....	424 13	.....
"No. 210".....	.....	New hull under construction..	.....	.....	.....	375 00	.....
"Plamondon".....	.....	Construction of new dredge...	.....	.....	.....	2,666 05	.....
Stationery.....	.....	.....	.....	.....	.....	37 97	.....
				Grand Total.....		\$53,135 19	

BRITISH COLUMBIA

"No. 301".....	April 1-June 18 Aug. 10-16, Sept. 19-Nov. 30.	Steveston (Wing Dam).....	Sand, silt.....	44,945	\$24,926 03	.....	0.55
"No. 301".....	Feb. 28-Mar. 15.	Victoria (Hospital Rock).....	Rock.....	3,393	3,844 34	.....	1.13
"No. 301".....	June 20-30, Aug. 1-9, Sept. 2-3..	Victoria (Discovery Rock)...	Rock.....	3,861	4,919 10	.....	1.27
"No. 301".....	Sept. 5-15.....	Steveston (Submerged dam)	Mattress.....	1,655	1,873 92	.....	1.13
"No. 301".....	July 21-26.....	Victoria (Puget Lumber Co.)	Mud.....	4,521	1,791 27	.....	0.39
"No. 301".....	July 27-30.....	Victoria (Marine and Fisheries wharf).	Mud.....	1,597	1,501 91	.....	0.94
"No. 301".....	Aug. 17-Sept. 1..	Esquimalt (Long Cove).....	Mud.....	13,483	5,222 24	.....	0.38
"No. 301".....	Dec. 1-Feb. 8- 13-27, Mar. 16-31.	Victoria Harbour (Area A)...	Mud, boulders.....	57,328	23,989 16	.....	0.41
"No. 301".....	Feb. 9-11.....	Esquimalt (Dockyard).....	Rock.....	110	330 70	.....	3.00
				130,893	.....	\$68,398 67	0.52
"No. 303".....	April 1-4,..... May 10-28	Sandheads.....	Sand, silt.....	73,670	8,990 43	.....	0.122
"No. 303".....	April 4-5, May 30 -Oct. 8, Feb. 21-28 and Mar. 6-29.	Woodward Cut.....	Sand, silt.....	484,524	61,518 05	.....	0.127
"No. 303".....	May 9-Mar. 30- 31.	Squamish.....	Silt and gravel.....	1,989	447 75	.....	0.225
"No. 303".....	Oct. 10-11.....	New Westminster (Govt. wharf).	Sand, silt.....	2,000	214 92	.....	0.107
"No. 303".....	Oct. 12-29, Dec. 14-16.	North Arm Jetty.....	Sand, silt.....	30,096	5,032 48	.....	0.167
				592,279	.....	76,203 63	0.128
"No. 305".....	April 1-May 14, June 13-July 9, July 27-Aug. 6.	Fraser River (North Arm)....	Sand, silt.....	177,205	17,551 94	.....	0.099
"No. 305".....	May 16-24, Sept. 21-Jan. 31.	Nicomien (McDonald Bar)....	Sand, gravel.....	105,770	31,217 86	.....	0.295
"No. 305".....	July 11-26.....	New Westminster, Indian Re- serve.	Sand, silt.....	19,630	3,012 24	.....	0.153
"No. 305".....	Aug. 8-31.....	Hatzic wharf.....	Sand, silt.....	41,185	5,672 40	.....	0.137
"No. 305".....	Sept. 1-10.....	Fraser Mills (Can. West Co.)..	Silt, debris.....	6,175	938 88	.....	0.152
"No. 305".....	Feb. 1-11.....	New Westminster (Govern- ment wharf).	Silt.....	3,110	417 28	.....	0.134
"No. 305".....	Feb. 13-Mar. 4..	Pitt Lake (Govt. wharf).....	Sand, gravel.....	20,695	3,977 20	.....	0.192
"No. 305".....	Mar. 6-31.....	Sumas Prairie.....	Sand, gravel.....	78,875	12,101 12	.....	0.153
				452,645	.....	74,888 92	0.165
"No. 306".....	.....	Not in commission.....	.....	.....	.....	5,939 35	.....
"No. 307".....	.....	Not in commission.....	.....	.....	.....	1,975 04	.....
Rock Breaker No. 1.	.....	Not in commission.....	.....	.....	.....	1,026 08	.....
Rock Breaker No. 2.	.....	Not. in commission.....	.....	.....	.....	890 69	.....

CALENDAR YEAR DEPARTMENTAL DREDGING, 1921—Continued.

BRITISH COLUMBIA—Concluded

Dredge	Date	Locality	Material	Quantity Cubic Yard	Cost Locality	Total Expendi- ture	Cost Per cu.yd.
					\$ cts.	\$ cts.	\$ cts.
Drill Plant No. 2.	April 1-Aug. 15.	Victoria (Discovery Rock).	Gneiss rock	2,431	19,945 33		8.20
Drill Plant No. 2.	Aug. 16-Mar. 31.	Victoria (Hospital Rock)...	Gneiss rock.....	4,618	38,975 12		8.44
				7,049		58,920 45	8.35
Tug <i>Petrel</i>		Not in commission.....				\$ 1,085 94	
Tug <i>Point Grey</i>		Not in commission				704 10	
Tug <i>Point Hope</i>		Not in commission				507 07	
Printing and Stationery.						414 00	
Advertising..						261 33	

PLANT UNDER DISTRICT ENGINEER DONCASTER

"No. 302".	Nov. 13-14	Proctor	Sand, gravel	248	\$ 188 45		0.759
"No. 302".....	Sept. 24-Mar. 31.	Kootenay Landing	Clay, silt..	24,670	15,983 62		0.647
				24,918		16,172 07	0.649
"No. 304".....		Not in commission..				109 85	
"No. 311".		Not in commission				662 45	
						\$308,159 64	

DRY DOCKS

CHAMPLAIN DRY DOCK

During the fiscal year, the contractors replaced defective work that had not been built in conformity with plans and specifications.

Work was done outside of the contract by day labour, under direction of the resident engineer, and consisted in the installation of an 8-inch cast-iron water main, 1,200 feet long, with four hydrants, to connect with the water system of the town of Lauzon, and an elevator shaft and tunnels were excavated, lined with reinforced concrete, steel doors installed at the entrance of each tunnel, a building erected to receive the elevator machinery, steel stairs placed around the elevator pit and everything made ready to install the elevator.

Although not yet complete, the dock has been in operation since 1918, under agreement with the Davies Shipbuilding and Repairing Co., but on May 3, 1921, the Department took over the operation of the dock, accepting dockage dues from vessels, while not releasing the contractors from the completion of their contract.

It is expected that the dock will be finally completed during the coming fiscal year, and is estimated that the total cost of the dock complete, including site, will be approximately, \$4,100,000.

ESQUIMALT DRY DOCK

(NEW)

Tenders were invited in September, 1920, for the construction of a drydock in Skinner cove, Esquimalt harbour, of the following general description: Length from outer caisson stop to head wall, 1,150 feet; width of entrance, 125 feet on sill and 135 feet at coping level; depth on sill at ordinary high water spring tides, 40 feet. The plans of the dock call for two inner sills located 400 feet and 750 feet from the entrance sill respectively with an emergency sill 20 feet outside the

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entrance sill. The outer and inner entrances will be closed by floating caissons, two to be provided, although these caissons as well as the mechanical equipment and buildings were not included in the work advertised.

Briefly the work advertised consisted of the following:—

1. The construction of a substantial cofferdam to enclose the area within which the works were to be built, the unwatering and keeping free from water of the enclosed area during the construction of the works, and the removal of the cofferdam on its completion.

2. The necessary excavation, both earth and rock, over the area to be occupied by the dock, part of the entrance pier and channel, pump wall, drains, culverts, etc.

3. The dredging of an entrance channel or any other area required.

4. The construction of a dry dock complete, of concrete walls provided with the necessary bollards, keel blocks, etc.

5. The construction of an elevator shaft and the necessary tunnels, and the furnishing and installation of an elevator and enclosed stairs.

6. The construction of a landing wharf at the entrance of the drydock.

7. The construction of a standard gauge railway track on each side of the dock and along the landing wharf.

In January, 1921, the contract for the work was awarded to the P. Lyall & Sons Construction Company, Limited. The date of the signing of the contract was February 17, 1921, and the amount, based on the schedule of quantities attached and the contractor's unit prices, was \$4,217,400. The date set for completion is January 6, 1924.

Work was commenced March 14, 1921, when the contractors started dredging the overlying material in the basin, and they had removed 16,200 cubic yards of material prior to the commencement of the fiscal year 1921-22.

Permission was granted to construct a cofferdam to enclose only the inner 600 feet of the dock to enable the contractors to make an early start on the rock excavation below low tide while the construction of the main cofferdam around the whole area to be unwatered was in progress. The type of dam used is a rubble mound 14 feet at the top, which is 4 feet above high tide, with $1\frac{1}{2}$ to 1 slopes with clay deposited on the outer face. Considerable difficulty was experienced in preventing the action of the tide and waves from flattening the slope of the clay mat and leakage developed above low tide level. Eventually in October, a timber breastwork of round piles supporting 6 by 12 inch sheet piling was driven at a distance of 70 feet from the centre of the dam and extending from shore to shore. This breastwork effectually stopped the movement of the clay and since its completion in November, the cofferdam has been water-tight.

All the dredging within the area of the first cofferdam and that on the site of the cribs of the proposed landing wharf, has been completed, the amount removed during the fiscal year 1921-22 being 101,520 cubic yards.

The earth excavation overlying the rock has been completed, the amount removed being 22,310 cubic yards.

The rock excavation above elevation 8 above zero, which is the dividing line for purpose of payment, is complete with the exception of a few thousand yards, the amount removed during the year being 85,991 cubic yards.

In October, the water in the area behind the cofferdam had been pumped to a sufficiently low level to permit the commencement of the rock excavation below elevation 8 above zero, and the work on this item has proceeded steadily since. The amount removed totalled 71,118 cubic yards, while at the end of the year a further yardage of 14,816 had been drilled and blasted but not excavated.

At the end of the fiscal year, over three hundred feet of the length of the dock had been excavated to the lines and grades required for concreting, while the area to be occupied by the pumphouse had been excavated to an average depth of 22

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feet below low tide. In this latter area, the drilling and blasting had been carried 8 feet lower but all of the rock was not removed. The amount of rock in trenches removed during the year was 1241 cubic yards.

The thirty bollards required for the sides of the dock were all cast and delivered.

Of the 800 keel blocks required, 147 had been delivered, inspected, and included in the estimates.

The six-inch cast-iron water main to supply fresh water from Admirals Road main of the Esquimalt water system to and around the dock was constructed from Admirals Road to the head of the dock, 863 lineal feet being laid to date.

When the dredging over the site of the cribs forming the landing wharf was in progress it was found that the material encountered was so soft and unstable that it was necessary to excavate to a much greater depth than anticipated. This in turn made necessary the depositing of a greater tonnage of rubble stone than the original schedule called for. During the fiscal year, the tonnage placed was 51,512, and the mounds, both for the landing wharf and the wing crib south of the entrance of the dock, require now between four and five thousand tons to complete them.

The sub-structure of the landing wharf is to be composed of timber cribs 100 feet long, 40 feet wide and 35 feet high, sheathed with reinforced concrete and sunk on the prepared rubble mound so that the top is at an elevation of 3 feet above low tide. These cribs are then to be ballasted and a concrete coping to elevation 14.5 constructed on top with filling behind.

Work was commenced on the construction of these cribs in August, 1921, and up till March 31 two had been completed to the 35-foot level, two to the 28-foot level, one to the 20-foot level, and one to the 10-foot level.

Thirteen bollards are required for the superstructure of the landing wharf, and these have all been delivered and inspected.

OLD ESQUIMALT DRY DOCK

Thirty-one ships were docked during the year ending March 31, 1922, for cleaning, painting and repairs. Besides docking and undocking the above ships, the staff has been employed in keeping the grounds in a presentable appearance and keeping the dock in readiness for any business offering.

A new 6-inch centrifugal pump has been installed to take the place of the old one which was worn out.

LOCKS AND DAMS

RIVIÈRE DE LIEVRE LOCK AND DAM

Reconstruction of Training and Landing Piers

A contract was entered into for the construction of 243 lineal feet of concrete training and landing piers, 123 feet long upstream and 119½ feet downstream of locks, averaging 4 to 7½ feet wide in the bottom to 2 feet wide on top, built to elevations +5 feet, +8 feet, +11 feet and +14 feet on the upstream section and to elevations +7 feet, +10 feet, +13 feet and +16 feet, from 4 to 8½ feet wide in the bottom and 2 feet wide on top, in the downstream section. Work was completed November 26.

BRIDGES AND ROADS

BANFF

New Bridge over Bow River

(Described in the annual report for 1921.)

The construction of a new bridge 420 feet long, 56 feet wide and 82 feet above water level, consisting of four spans of 88½ feet each and two approaches was started October 22, 1920, and completed October 26, 1921.

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EDMUNDSTON, N.B.—MADAWASKA, ME.

International bridge

This structure spans the St. John river between the above-named points, and consists of four 235-foot steel spans supported upon three concrete piers and two shore abutments. The contractors for the substructure were D. C. Burpee & Son of Devon, N.B.; work was started in May and completed in November, 1921. The contractors for the superstructure were the Canadian Bridge Co., of Walkerville, Ont.; work on the superstructure was started in November, 1921, and finished in March, 1922. The flooring and approach, being built by day labour, is not yet completed.

The estimated total cost of this bridge is placed at \$324,000, of this amount the sum of \$266,944 has been expended; one-half by the State of Maine and the other by the Dominion of Canada.

The bridge will be open for traffic by the end of September, 1922.

GOVERNMENT TELEGRAPH SERVICE

D. H. Keeley, General Superintendent

Location of lines	Year Con- structed	Length of lines			No. of Offices	Messages sent	
		Miles of pole line	Miles of wire	Cables		1921	1922
Newfoundland.....	1883	14	14		2		
Nova Scotia.....	1880-1916	824 ¹ / ₄	950 ¹ / ₄	37	164	34,311	27,326
New Brunswick—							
Chatham-Escuminac.....	1885-1919	86 ¹ / ₂	109 ³ / ₄		36	6,970	7,779
Bay of Fundy.....	1880-1916	64 ³ / ₄	82 ¹ / ₄	35	21	5,525	5,263
Quebec—							
Magdalen Islands.....	1880-1910	111 ¹ / ₂	140	73 ¹ / ₄	20	4,232	3,932
Anticosti Island.....	1881-1890	251 ¹ / ₂	251 ¹ / ₂	65 ¹ / ₄	9	853	1,106
North Shore St. Lawrence.....	1881-1915	1,082	1,082	5 ¹ / ₂	77	64,012	38,934
Chicoutimi District.....	1881-1912	479	479		36		14,683
Quarantine System.....	1885-1912	54 ³ / ₄	152 ¹ / ₄	24 ¹ / ₂	17	12,552	14,590
Quebec County.....	1909-1914	73	97 ¹ / ₂		9	10,656	9,441
Timiskaming.....	1910-1912	104	104		18	2,650	1,700
Ontario—							
Pele Island.....	1889-1901			17 ¹ / ₂		497	345
Saskatchewan—							
Moose Jaw-Willow Bunch.....	1885-1912	179	212		7		24,440
Battleford-Isle la Crosse Section.....	1912	288	298		8	27,089	
Qu'Appelle-Onion Lake.....	1883-1913	397	458		12		
Alberta—							
Onion Lake-Hudson Hope Loops and Branches.....	1883-1919	793	1,041 ¹ / ₂		45	66,874	52,367
Athabaska-Fort McMurray and branches.....	1914-1915	323	323		7		
British Columbia—							
Mainland.....	1899-1921	1,680	3,088	13 ¹ / ₂	383	147,375	142,053
Vancouver Island.....	1896-1914	1,254 ³ / ₄	1,501	89 ¹ / ₄	163	132,079	111,025
Yukon—							
Ashcroft-Dawson-Boundary and Branches.....	1899-1916	3,215 ¹ / ₂	3,541 ¹ / ₄		249	120,796	93,197
Queen Charlotte Island.....	1913-1914	113	113		15		
Total.....		11,388 ¹ / ₂	14,038 ¹ / ₄	360 ³ / ₄	1,298	636,471	548,181

TELEGRAPH SYSTEMS OF THE DOMINION

As a matter of general interest, pursuant to the statement submitted last year, the latest figures to hand showing the extent of telegraph lines in operation in the Dominion are as given hereunder:—

Canada	Length of lines in miles				Length of conductors in miles				No. of offices
	Aerial	Under- ground	Sub- marine	Total	Aerial	Under- ground	Sub- marine	Total	
Canadian National Tele- graphs.....	23,169	11	15	23,195	108,843	356.25	105.19	109,304.44	2,004
Government Telegraph Service.....	11,388 ¹ / ₂		360 ³ / ₄	11,749 ¹ / ₄	14,038 ¹ / ₄		360 ³ / ₄	14,399	1,298
Canadian Pacific Tele- graph.....	14,552	51	94	14,697	124,242	1,513	224	124,979	1,519

REVENUE AND EXPENDITURE

The revenue and expenditure for each of the Government lines in the several districts hereinbefore mentioned are given in the following table:—

EXPENDITURE, 1921-22

Telegraph and telephone lines	Con- struction improve- ments	Repairs	Staff and main- tenance	Total	Revenue
	\$		\$	\$	\$
Cape Ray, Newfoundland.....			500 00	500 00	
<i>Maritime Provinces—</i>					
Bay of Fundy Lines.....			4,743 36	4,743 36	1,731 94
Cape Breton Lines.....	648 00		47,702 63	48,350 63	7,927 64
Chatham-Escuminac Line.....			2,155 56	2,155 56	1,489 18
Pictou Island.....	8,942 50			8,942 50	
Prince Edward Island and Mainland Cable.....			14,032 58	14,032 58	
<i>Quebec Mainland—</i>					
Dorchester County Lines.....			303 93	303 93	327 40
North Shore, East of Bersimis.....			37,573 85	37,573 85	12,987 74
North Shore, West of Bersimis.....			21,656 85	21,656 85	2,724 92
Quebec County Lines.....		1,800 00	3,334 50	5,134 50	1,484 64
Timiskaming Lines.....			5,627 10	5,627 10	433 75
<i>Quebec Islands—</i>					
Anticosti System.....			11,802 55	11,802 55	1,026 52
Cable ship "Tyrian".....			65,224 40	65,224 40	
Grosse Ile, Isle aux Coudres and Island of Orleans system.....		171 00	8,065 58	8,236 58	757 02
Magdalen Islands system.....			10,291 03	10,291 03	2,214 62
Maritime Provinces and Gulf gener- ally.....			9,502 73	9,502 73	
<i>Ontario—</i>					
Pele Island system.....			2,933 22	2,933 22	61 40
<i>Saskatchewan and Alberta—</i>					
Saskatchewan Lines.....			72,476 99	72,476 99	7,653 11
Alberta Lines.....	10 80		112,504 44	112,515 24	28,832 87
<i>British Columbia and Yukon—</i>					
Ashcroft-Dawson system.....	20,637 25		264,319 29	284,956 54	108,254 00
British Columbia Mainland system..	21,635 61	20,996 89	106,883 97	149,516 47	64,339 31
British Columbia-Vancouver Island system.....	1,932 95		144,120 72	146,053 67	47,935 28
Telegraph Service generally.....			1,585 83	1,585 83	
Totals Telegraph and Telephone Lines	53,807 11	22,967 89	947,341 11	1,024,116 11	290,131 34

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DEPARTMENTAL TELEPHONE SERVICE

Up to date of this report (April 1, 1922) the telephone connections with the central office of the Bell Telephone Company at Ottawa, listed as chargeable to the special appropriation, numbered 2,087, the annual charge for which amounts to \$70,594.76. The connections are distributed amongst the several departments, as hereunder:—

Department	Number of telephones				Total	Cost per Annum
	Office		Residence			
	Direct	Extn.	Direct	Extn.		
Agriculture.....	46	54	7	3	110	\$ 3,865 64
Air Board.....	1	1			2	72 84
Air Board, Private Branch Exchange.....	30				30	909 00
Auditor General.....	15	12			27	1,044 06
Canadian Trade Commission.....	2				2	115 92
Chief Electoral Officer.....	1	5			6	102 60
Civil Service Commission.....	25	15	4	1	45	1,819 20
Conservation Commission.....	4	1	1	1	7	297 96
Customs.....	42	10	4		56	2,723 76
Dominion Archives.....	4	4	1	1	10	334 56
Exchequer Court.....	2	3			5	158 04
External Affairs.....	13	5	3	2	23	947 52
Finance.....	6	7	2		15	528 95
Finance, Income Tax, Private Branch Exchange..	8				8	330 12
Finance, Private Branch Exchange.....	38				38	1,645 92
Government House.....	7	1	7	4	19	708 36
Government House Private Branch Exchange.....	18				18	588 12
Government House, Private Line.....						161 64
Health.....	1				1	57 96
Health and Statistics, Private Branch Exchange..	20				20	687 12
House of Commons.....	6	2	2		10	409 44
House of Commons and Senate Private Branch Exchange.....	87				87	3,148 20
House of Commons and Senate Private Branch Exchange Sessional.....	229				229	3,079 01
Immigration and Colonization.....	16	10	2		28	1,155 24
Indian Affairs.....	13	1	1		15	791 64
Industrial Research Council.....	2	1			3	133 80
Interior.....	134	46	3	1	184	8,681 72
Interior Soldiers' Settlement Board.....	17	10			27	1,140 12
Insurance.....			1		1	33 36
Justice.....	21	11	5	1	38	1,504 20
Labour.....	8	13	1	3	25	681 24
Library of Parliament.....			2	1	3	79 08
Marine and Fisheries.....	1	1	3	1	6	185 28
Marine and Naval Private Branch Exchange.....	104				104	2,704 08
Militia and Defence.....	20	9	3	2	34	1,723 44
Militia and Defence Private Branch Exchange....	194				194	5,693 64
Mines.....	26	11	1	1	39	1,727 40
Mines Private Branch Exchange.....	36				36	935 64
Naval.....	3	1	1		5	214 56
North West Territories.....	1	2			3	85 20
Patents.....	6	2	1		9	405 84
Patriotic Fund Committee.....	1	3			4	102 60
Post Office.....	44	9	5		58	2,830 80
Printing and Stationery.....	1	1			2	57 96
Printing and Stationery Private Branch Exchange..	49				49	1,578 36
Privy Council.....	7	2	5	2	16	588 96
Public Works.....	61	24	5	3	93	4,018 92
Purchasing Commission, Private Branch Exchange	12				12	570 48
Railways and Canals.....	24	10	7		41	1,966 68
Railway Commission.....	18	9	1		28	1,217 88
Royal Canadian Mounted Police.....	36	16	2	1	55	2,350 80
Secretary of State.....	15	5	2	1	23	1,029 60
Soldiers Civil Re-establishment.....	3		3	1	7	271 44
Soldiers Civil Re-establishment, Private Branch Exchange.....	134				134	3,756 00
Supreme Court.....	5	3	1	1	10	385 68
Trade and Commerce.....	19	11	2	1	33	1,337 64
	1,636	331	88	32	2,087	70,594 76

NEWFOUNDLAND

The line from Port au Basque to Cape Ray continues to be operated as heretofore under an arrangement with the Anglo-American Telegraph Company.

CAPE BRETON

The various lines comprising the Cape Breton system, consisting of telegraph and telephone circuits have been satisfactorily maintained during the past year.

There have been no delays to business due to prostration of lines. It is to be regretted that the volume of business fell off during the last fiscal year due to general depression and more especially to the curtailment of coal and pulpwood operations.

BAY OF FUNDY

Both telegraph and telephone circuits worked well during the past year. On the many short stretches of cable forming part of this system only four interruptions took place; repairs were effected without delay.

CHATHAM—ESCUMINAC

This line, which was built in 1885, and operated as a telegraph line with six offices on its circuit is now operated as a telephone line with thirty-six offices.

MAGDALEN ISLANDS

Reorganization of the telephone service given on these islands is now under consideration by the department.

ANTICOSTI

The usual repairs were effected during the year. Although the weather was rather severe as a whole during last season the service given was continuous. The revenue was almost double that of the previous fiscal year.

NORTH SHORE ST. LAWRENCE

This line received a thorough overhauling under the supervision of the general repairers, over 900 poles have been replaced and five hundred braces put in. The working condition of the line has been very satisfactory.

QUARANTINE LINES

Much trouble was had during the past season with the cables forming part of this system due to ice crushes, but repairs were effected in all cases with the least possible delay. In effecting these repairs about four miles of cable was used. Notwithstanding heavy snow and sleet storms, the land lines gave good service throughout the year. No changes in location or extensions were made.

QUEBEC COUNTY LINES

The work of repoling these lines was completed in September and as a consequence of the reconstruction, there has been a great improvement in the efficiency of the wire service.

TIMISKAMING

Apart from the usual repairs nothing of importance is to be reported in the way of changes on this system. The lines gave good service all the year. No new offices opened or change of location took place.

PELEE ISLAND

The cable connecting Pelee Island with the mainland gave good service from July, 1921, to March, 1922, when it was interrupted by an ice shove on the Leamington side, which subjected a stretch of some four miles to a very great strain parting the core.

SASKATCHEWAN

There is nothing of importance to report on the operation of this system, which gave a uniform satisfactory service throughout the year. Business on the whole has been fairly good and compares satisfactorily with that of the previous year.

ALBERTA

In the early part of the year, very severe storms swept the northwest section of Alberta doing much damage to our lines. However, due to the splendid work of the linemen no serious delays occurred to business. Five and a half miles of new construction were added to last years mileage due to the moving of the line from its former location to the roadway between Onion lake and Edmonton.

BRITISH COLUMBIA MAINLAND

Good service was given over this system during the past year. The following extensions were constructed:—

	Miles
Fairmont Springs to Canal Flats..	18½
Mt. Olie to Vavenby	35
Celistia to Anglemont	9
Lumby to Sugar Lake	34
Sorrento to Blind Bay	4
Campbell Range to Robin Range	12
Slocan City Exchange	1
	<hr/>
	113½

VANCOUVER ISLAND

The various lines comprising this district were operated throughout the year with very few interruptions. On the occasions when trouble occurred on land lines or cables, repairs were effected with a minimum of delay and expense.

YUKON SYSTEM

The operation of the main line during the year has been satisfactory in every respect.

General repairs were carried out on the various sections of the main line, but only such repairs as found absolutely necessary were undertaken. The following new construction was carried out during the year:—

	Miles
Kelley's Lake to Canoe Creek	47
100 Mile House to Canim Lake	23
Francois Lake to Ootsa Lake	60
	<hr/>
	130

Traffic fell off considerably during the year due to general business depression and the closing down of several mining properties along the line.

CABLE SHIP *Tyrian*

Report of operations from April 1, 1921, to March 31, 1922.

1921

- April 1 to May 14 in dock at Halifax, N.S.
 May 15 Sunday.
 16 Received orders for repair of Scatarie cable. Fog and rain to-day prevented adjusting of compasses.
 17 Tested compasses and proceeded for Scatarie.
 18 Arrived at Scatarie, repaired cable and went to North Sydney for coal.
 19 Made arrangements for getting coal.
 20 Took in coal and water, and sailed for Crane Island, Que.
 21 and 22nd, at sea.
 23 Anchored at St. John, Isle of Orleans. Strong gale.
 24 Brought Mr. Pouliot, the Dist. Supt., off and moved to Crane Island.
 25 to 27. Repairing Crane Island-Montmagny Cable.
 27 Went to St. Francois to repair Isle Reaux Cable.
 28 to 30. Repairing St. Francois-Isle Reaux Cable.
- June 1 Landed Mr. Pouliot at St. John, took aboard four cable reels and proceeded to Quebec.
 2 Made arrangements for shipping one knot of cable to Leamington, Ont.
 3 Reeled the above cable.
 4 Shipped reel of cable by rail, took aboard water, etc.
 5 Sunday.
 6 Moved down to Crane Island wharf and brought off the old Montmagny cable.
 7 Went to St. Francois, landed the above cable.
 8 Went to Isle Coudres, repaired this cable and sailed for repair of Bryon Island Cable.
 9 At sea.
 10 Arrived at Grosse Isle, Magdalen Islands.
 11 to 16. Repairing Bryon Island Cable.
 16 Went to Bay St. Lawrence for repair of St. Paul Island Cable.
 17 to 21. Repairing St. Paul Island Cable.
 22 to 24. Bringing coal from Neils Harbour to Bay St. Lawrence.
 25 Went to Entry Island, repaired this cable and sailed for Gaspé, Que.
 26 Sunday. Anchored at Gaspé.
 27 Crossed over to South West Point, Anticosti, and repaired cable.
 28 Went back to Gaspé for orders.
 30 Received orders to pick up remnant of Long Point Cable.
- July 1 Went to Mechastic Bay, Anticosti.
 2 to 7. Picking up what was left of Long Point Cable.
 8 Went to Gaspé.
 9 Received instructions to lay a new cable from Pictou to Pictou Island, N.S., and proceeded to Pictou.
 10 to 14. Laying the above cable.
 15 In Pictou, N.S.
 16 Sailed for North Sydney.
 17 Sunday. Informed of trouble in Big Bras d'Or Cable.
 18 Repaired the above cable.
 19 Sailed for Halifax, N.S.
 20 Arrived at Halifax.
 21 to Aug. 9. Doing repairs.
- Aug. 10 Sailed for Tancook, N.S.
 11 and 12th. Repairing Tancook Cables.
 13 Went to Cape Negro Island. Repaired this cable.
 14 Went to Half Moon Island.
 15 and 16. Repairing Half Moon Island Cable.
 17 Went to Petite Passage and examined cable there.
 18 Proceeded on Gannet Rock Cable repair.
 19 to 24. Repairing Gannet Rock Cable.
 24 Repaired Hay Island Cable and went to Duck Island.
 25 Repaired Duck Island Cable and went to East Port, Maine.
 26 Took in fresh water. Took cable hut away from Chocolate Cove and put it up at Cummings Cove.
 27 Brought the hut from Wilsons Beach aboard, for use elsewhere.
 28 Sunday. Went to Flagg's Cove and sailed for Grand Passage.
 29 Put up new Cable Box and make new connections at the Long Island end of the Grand Passage Cable.
 30 Thick fog.
 31 Went to Seal Island, N.S.

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- 1921
- Sept.

1

to 6. Repairing Seal Island Cable.
- 7

Sailed for Halifax, N.S.
- 8

Arrived at Halifax.
- 9

Repaired Lawlors Island Cable.
- Dec.

4

Sailed for repair of Eastport-Campobello Cable.
- 5

Went in to Woods Harbour for shelter.
- 6

Strong gale.
- 7

Snowing.
- 8

Sailed for Welchpool, N.B.
- 9

Arrived at Welchpool.
- 10

to 13. Repairing Eastport-Campobello Cable.
- 14

Went to Seal Cove, Grand Manan, and repaired Big Wood Island Cable.
- 15

Sailed for Halifax.
- 16

Arrived at Halifax.
- 19

Went to Furness Wharf and took aboard five knots of new Deep Sea Cable.
- 28

Sailed for repair of St. Paul Island Cable.
- 29

Arrived at North Sydney.
- 30

Started coaling and had to stop on account of gale of wind and snow storm.
- 1922
- Jan.

6

Bunkered ship.
- 7

Started for St. Paul Island, ran into snow storm and had to return.
- 8

Went out to St. Paul Island but too much sea on. Came back to North Sydney.
- 9

Ice making in the harbour.
- 10

Snowing.
- 11

Making ice.
- 12

Strong gale.
- 13

Gave it up for this season and sailed for Halifax. Went in to Louisburg for the night.
- 14

Started again and went in to White Head for the night.
- 15

Arrived at Halifax.
- 17

Received instructions to repair Imperial Cable off Halifax.
- 19

to Feb. 7. Repairing the above cable.
- Feb.

8

to March 31. At Halifax.

Cable handled by the "Tyrian" for the season of 1921 and 1922

DEEP SEA CABLE				
1921			Knots	Knots
April	1	Cable on hand	7.30	
May	16	Laid at Scatari Island.. .. .		.16
	27	Laid at Montmagny, Que.		2.66
June	3	Sent to Leamington, Ont.		1.00
	8	Laid at Coudres Island .. .. .		.10
	16	Picked up at Bryon Island	4.10	
		Laid at Bryon Island		4.20
	18	Picked up at St. Paul Island .. .. .	.50	
		Laid at St. Paul Island .. .. .		.78
July	8	Picked up at Long Point	6.57	
		Reduced to Boat Cable .. .. .		.47
	14	Laid to Pictou Island, N.S.		6.10
Aug.	13	Laid Cape Negro Island .. .. .		.50
	16	Laid Halfmoon Island .. .. .		.80
	23	Laid Gannet Rock .. .. .		.44
Sept.	5	Picked up Seal Island, N.S.	2.13	
	6	Laid Seal Island		2.59
		Condemned .. .. .		.10
Dec.	13	Laid Eastport-Campobello .. .. .		.50
	14	Laid Big Wood Island, N.B. . . . .		.20
	19	Received new cable	5.00	
1922				
Mar.	31	Cable on hand		5.00
			25.60	25.60
FOR BOAT WORK				
1921			Knots	Knots
May	18	Cable on hand .. .. .	.95	
June	1	Laid St. Francois-Isle Reaux .. .. .		.75
	18	Picked up St. Paul Island .. .. .	.08	
July	14	Picked up Long Point .. .. .	.72	
Aug.	12	Laid Tancook, N.S.		1.00
			1.75	1.75

		SHORE END CABLE	Knots	Knots
1921				
April	1	Cable on hand	1.25	
July	14	Picked up Long Point .. .. .	.25	
		Laid Pictou Island .. .. .		.45
Dec.	13	Laid East Port-Campobello .. .. .		.90
1922				
Mar.	31	Cable on hand15
			1.50	1.50

FOUR CORE CABLE

March	31	Cable on hand	1.19 knots
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TWO CORE CABLE

March	31	Cable on hand.. .. .	1.37 knots
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COLLECTION OF REVENUE

By E. T. Smith, Collector of Public Works Revenue

For the financial year ended March 31, 1922, the revenue accrued from public works was as follows:—

Slides and booms	\$ 297 31
Graving docks	112,193 55
Ferries	2,092 00
Rents and sales	171,275 21
	<hr/>
	\$285,858 07

Thus the revenue accrued was \$12,641.27 more than for the previous year, but there was a decrease of \$80,955.32 in the amounts collected. The deficit in the collections arose from certain disputed accounts, of which an explanation appears herein under the heading of rents.

From slides and booms the revenue was \$297.31, being \$49.45 less than the previous year. From graving docks the revenue was \$46,275.40 more than in 1920-21. There was an increase of \$53 in the revenue for ferries. The revenue accrued from rents and sales was \$33,637.68 less than the previous year.

Turning to the collections from public works amounting to \$200,805.10, this is a decrease from the previous year of \$80,955.32, an explanation of which will be found under the respective heads hereunder.

While the department has been divested of the maintenance and operation of the slides and booms in the Ottawa district, the St. Maurice district and Saguenay district, with regard to the first named, under the terms of the lease the lessees are to pay over to the Government at its termination any surplus that remains after the cost of operation and maintenance have been defrayed from the tolls collected, which are regulated as to amount by His Excellency the Governor General in Council. The accounts of the company to whom the St. Maurice Works have been leased have been carefully examined as to expenditure and revenue, but as the settlement of the amount due under the lease to the Department is only to be effected at the expiration thereof (25 years) it would be a waste of time to pay any further attention to this phase of the transaction.

In the Saguenay district, the Chicoutimi Pulp Company, has operated the work for the past four years. As it was found that the actual cost of operation would very greatly exceed any possible revenue, this company was allowed to handle the property, subject to the condition that they keep it in suitable shape for handling the traffic, allowances to be made for wear and tear.

In the Ottawa district, the lease provides that the company shall only levy such tolls from year to year as shall pay for the cost of maintenance, repairs and operation. Consequently there will be no surplus of any kind due to the Government at the expiration of the lease as in the case of the St. Maurice River works. The lease for the Gatineau works provides that the lessees shall pay 90 per cent of any surplus of revenue over cost of maintenance and operation.

An analysis of the variations of revenue will be found under the different heads hereinafter.

SLIDES AND BOOMS

OTTAWA DISTRICT

In order that this report shall contain a clear explanation of the actual accounts of the public works revenue in my charge at the close of the last financial year, it is necessary to repeat what I have so often stated in previous reports, namely, there still remains on the books considerable amounts for slide and boom dues, the greater part of which accrued before July 1, 1889, when the collection of this revenue was transferred to this department, all of which with the exception of a few small items have been reported to the Privy Council and authority asked to have the same written off, but up to the present no decided action has been taken thereon. I would respectfully submit details relative to the several services under their respective heads:—

The balance of dues outstanding prior to July 1, 1889, when this department took over the collection was \$56,805.65.

Dues of 1889-90..	\$6,903 05
" " 1890-91..	28 42
" " 1892-93..	379 80
" " 1896-97..	196 71
" " 1903-04..	637 37
Outstanding..	<u>\$8,145 35</u>

This amount is \$1,016.26 less than as last reported, the difference having been written off in adjustment of claim.

Apart from one account of \$28.42 which has been recommended to be written off as above stated, all the dues which accrued in the Ottawa district since I took charge in 1889 has been collected.

ST. MAURICE DISTRICT

The amount outstanding previous to my taking charge of this district, namely, \$14,690.73, remains unchanged.

Of the dues accrued under the lease of the works to the St. Maurice River Boom and Driving Company, Limited, there still remains a balance of \$15,113.35 on March 31, 1922. As the dispute in relation to this has been adjusted, the proper steps are being taken to write off this amount.

NEWCASTLE DISTRICT

The dues accrued amounted to \$297.31, which was collected. There is no change in the amount of arrears outstanding, \$3,556.89. The reason for retaining control of these works, the cost of which is very trifling in comparison, is that the supply of water is governed by the canal authorities, and it would be to say the least very awkward if the control were handed over to the lumbermen as in the other districts.

GRAVING DOCKS

ESQUIMALT

The revenue for the last fiscal year was \$30,657.23, being \$4,403.93 more than for the preceding year. During the year, the dock was occupied for 69 days and the total tonnage of vessels docked was 150,134.

CHAMPLAIN

This dock has been operated by the department since May 1, 1921. The revenue received to March 31, 1922, was \$40,408.93. It was occupied during the season of navigation for 254 days by 21 vessels of 42,532 tonnage, three of which were

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Canadian Government vessels. During the winter of 1921-22, the dock was occupied by steamers *McKinstry*, *Narragansett*, *Glenellah*, *Bellechasse*, *Eureka*, *Rouville*, dredges *International* and *Progress* and tug *Witherbee*.

LORNE

During the financial year, the revenue was \$33,587.39, being \$1,978.39 more than the preceding year. The dock was occupied during the season of navigation for 170 days by 14 vessels of 30,991 tons, three of which were Canadian Government vessels. During the winter of 1921-22, the dock was occupied by the steamer *John S. Thom* and Q. H. C. *Floating Crane*.

KINGSTON

Owing to the general depression in shipbuilding it was decided to continue the reduction of rent to \$5,000 a year authorized in 1918 for a further period of four years from May 1, 1920. This rental has been duly paid.

SELKIRK REPAIR SLIP

The revenue for the last fiscal year was \$2,540, it being \$515.85 less than for the preceding year. The slip was occupied for 94 days by 21 vessels of 3,534 tons. Of these, five were Canadian Government vessels which occupied the dock for 21½ days.

RENTS AND SALES

During the year 1921-22, the revenue accrued from rents and sales was \$171,275.21, or \$33,637.68 less than the previous year. The collections were \$86,221.24 or \$117,182.43 less than last year. The accounts stand thus:—

Balance from previous years	\$ 14,712 90
Accrued to March 31, 1922	171,275 21
	<hr/>
	\$185,988 11
Collected... .. .	\$86,221 24
Written off	4,659 42
Balance March 31, 1922	95,107 45
	<hr/>
	\$185,988 11

Of the amounts apparently uncollected, an explanation would seem to be in order. In the hydraulic rents, one item of \$275 has been before the Department for years, \$12.50 and \$1 have since been paid, another item of \$3 is owing on a cancelled lease and an item of \$1 is uncollectable. There is also a balance of \$10,600.62 on Dunville Bridge and Dundas and Waterloo Road accounts which came to this department from the Inland Revenue Department in 1909. These two items originated a great many years ago and I am not aware that we were ever furnished with the details but from the condition of the accounts I take it that they are of very doubtful value. Of the remainder, \$84,214.33, there is one item of \$62,500 which by a readjustment of agreement since the close of the financial year is not payable until the 1st December next. Another item of \$3,000 has been allowed against a contra account by a decision of the Department of Justice. An item of \$13,117.50 and another of \$900 have been paid since the close of the fiscal year. This leaves a balance of \$4,696.83 much of which has been also since paid.

The amounts written off, \$4,659.42, are nearly altogether composed of commissions for collections allowed to agents, and the cost of upkeep of property expropriated in Toronto, and elsewhere.

In all fairness it may be claimed that in the administration of these properties there are serious obstacles to obtaining as favourable results, rentals, etc., as compared with similiar properties in the hands of private individuals. The latter can

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make terms, periods of leases, etc., as seen fit, but we cannot give any assurance in most cases of any more than a thirty-day term as we do not know when some of these properties may be required by the Government. Hence we cannot expect to obtain as good rentals as parties who can give a lease for one or more years, and this condition also makes it difficult for our agents to retain the tenants we may have.

The following is a summary of rents collected from public properties during the year ended March 31, 1922:—

Hydraulic and other rents.. . . .	\$ 3,491 50
Ottawa, Sussex street.. . . .	2,640 00
" Egan Block.. . . .	495 08
" Wellington Street North.. . . .	17,271 64
Toronto Post Office site.. . . .	13,295 43
Province of Manitoba.. . . .	110 00
Victoria, Esquimalt, etc., B.C.. . . .	2,904 50
Public building sites.. . . .	39,968 36
Sundry rents.. . . .	3,163 23
Plant rentals.. . . .	1,692 00
Sales and Interest.. . . .	1,189 50
	<hr/>
	\$86,221 24

FERRIES

The balance outstanding on March 31, 1921, was \$1,924.62. During the year ending March 31, 1922, the dues accrued were \$2,092, the amount collected was \$2,093, leaving a balance of \$1,923.62. Of the latter amount \$50 has since been paid and \$25 should not have been charged up. The remainder consists of old balances which accrued years ago before these accounts were transferred to this department.

Herewith is a table of Public Works revenue accrued during the year ended March 31, 1922, compared with the previous year, and also statements of the details of revenue of the Esquimalt dock, Lorne and Champlain docks at Levis, the repair slip at Selkirk, Man. and revenue from ferries.

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COMPARATIVE Table of Public Works Revenue accrued during the year ended March 31, 1922, compared with that of the fiscal year ended March 31, 1921, and of amounts collected on account of same.

	Year ended March 31, 1922	Year ended March 31, 1921	Increase 1922	Decrease 1922
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Slides and Booms—				
Ottawa District.....				
St. Maurice District.....				
Newcastle District.....	297 31	346 76		
Decrease \$49.45.....	297 31	346 76		49 45
Graving Docks—				
Esquimalt, B.C.....	30,657 23	26,253 30	4,403 93	
Kingston, Ont.....	5,000 00	5,000 00		
Levis, P.Q., Champlain Dock.....	40,408 93		40,408 93	
Levis, P.Q., Lorne Dock.....	33,587 39	31,609 00	1,978 39	
Selkirk Repair Slip, Man.....	2,540 00	3,055 85		515 85
Net Increase \$46,275.40.....	112,193 55	65,918 15	46,275 40	515 85
Ferries.....	2,092 00	2,039 00	53 00	
Rents and Sales—				
Hydraulic Rents.....	3,459 00	3,461 00		2 00
Minor Public Works.....	26 00	26 00		
Other Public Properties.....	167,790 21	201,425 89		33,635 68
Decrease \$33,637.68.....	171,275 21	204,912 89		33,637 68
Total Accrued—				
Slides and Booms.....	297 31	346 76		49 45
Graving Docks.....	112,193 55	65,918 15	46,275 40	
Ferries.....	2,092 00	2,039 00	53 00	
Rents and Sales.....	171,275 21	204,912 89		33,637 68
Increase \$12,641.27.....	285,858 07	273,216 80	46,328 40	33,687 13
Total Collected—				
Slides and Booms.....	297 31	5,873 41		5,576 10
Graving Docks.....	112,193 55	65,918 15	46,275 40	
Ferries.....	2,093 00	2,009 67	83 33	
Rents and Sales.....	86,221 24	203,403 67		117,182 43
Refund.....		4,555 52		4,555 52
Decrease \$80,955.32.....	200,805 10	281,760 42	46,358 73	127,314 05

ANNUAL Statement of Revenue Accounts of Ferries, for the year ending March 31, 1922

Ferries	Balance July 22, 1918	Balance Mar. 31, 1921	Accrued during the year	In return for:	Deposited to credit Receiver General	Balance
	\$ cts.	\$ cts.	\$ cts.		\$ cts.	\$ cts.
Hull.....	1,736 79					1,736 79
St. Clair Station and Lot Kent..	45 83					45 83
St. Leonard and Van Buren.....	30 00					30 00
Edmunston and Maine.....	20 00					20 00
Pembroke and Allumette (old)...	1 00					1 00
Buckingham and Cumberland (old)	15 00					15 00
Rockliffe and Gatineau Pointe.....			1,530 00	May, 1921	382 50	
				Jan., 1922	765 00	
				Mar., 1922..	382 50	
Walpole Is. and Algonac, Mich.....			2 00	April, 1921	1 00	
				Mar., 1922..	1 00	
Fort Erie and Buffalo.....		50 00	50 00	June, 1921..	50 00	50 00
Sault Ste. Marie.....			100 00	April, 1921..	100 00	
Calumet and L'Orignal.....			25 00	June, 1921..	25 00	
Courtwright and St. Clair.....			10 00	Feb., 1922..	10 00	
Rainy R., Baudette and Spooner....			75 00	April, 1921..	25 00	
				Jan., 1922..	50 00	
Brockville and Morristown, N.Y...			1 00	June, 1921..	1 00	
Sand Point and Norway Bay.....			5 00	July, 1921..	5 00	
Buffalo and Point Abinot.....			50 00	June, 1921..	50 00	
Buckingham and Cumberland.....			10 00	April, 1921..	5 00	
				Mar., 1922..	5 00	
Walkerville and Detroit.....			1 00	May, 1921..	1 00	
Fassett and St. Thomas d'Alfred...			10 00	April, 1921..	5 00	
				July, 1921..	5 00	
Pembroke and Allumette.....			130 00	June, 1921..	130 00	
Campbellton and Cross Point.....			10 00	June, 1921..	10 00	
Niagara and Youngstown.....			30 00	July, 1921..	30 00	
Prescott and Ogdensburg.....		1 00	1 00	June, 1921..	2 00	
Fort Francis and International Falls		25 00				25 00
Port Lambton and Roberts Landing			2 00	April, 1921..	1 00	
				Dec., 1921..	1 00	
Rainy River and Spooner.....			50 00	Feb., 1922..	50 00	
	1,848 62	76 00	2,092 00		2,093 00	1,923 62

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THE DRY-DOCK AT ESQUIMALT, B.C.

STATEMENT of Dues and other charges collected during the year ending March 31, 1922

Name of Vessel Docked	Tonnage	Period of Dockage		Dockage Charges	Other Charges	Total
		From	To			
		1921	\$ cts.	\$ cts.	\$ cts.	\$ cts.
SS. "Canora".....	2,382	April 22..	April 30..	1,825 00	46 20	1,871 20
SS. "Canadian Winner".....	5,492	May 2..	May 2..	200 00	3 00	203 00
SS. "El Lobo".....	4,800	" 9..	" 11..	680 00	12 00	692 00
SS. "Canadian Highlander".....	5,496	" 14..	" 16..	746 90	25 80	772 70
SS. "Princess Charlotte".....	3,844	" 26..	" 27..	200 00	1 20	201 20
SS. "Amur".....	907	" 30..	" 31..	290 70	8 40	299 10
SS. "Canadian Inventor".....	8,965	June 6..	June 13..	4,650 00	33 00	4,683 00
SS. "Canadian Exporter".....	5,498	July 13..	July 14..	200 00	2 40	202 40
SS. "Canadian Importer".....	5,498	" 30..	Aug. 1..	200 00	4 20	204 20
SS. "Canadian Prospector".....	5,492	Aug. 13..	" 15..	200 00	4 20	204 20
SS. "City of Vancouver".....	5,697	Sept. 10..	Sept. 11..	200 00	3 60	203 60
SS. "Caddo".....	6,329	" 16..	" 28..	5,465 00	290 20	5,755 20
SS. "Canadian Importer".....	5,500	Oct. 4..	Oct. 5..	750 00	.....	750 00
SS. "Arizonian".....	8,723	" 6..	" 15..	7,480 00	307 20	7,787 20
SS. "City of Victoria".....	5,697	" 19..	" 20..	200 00	18 00	218 00
SS. "El Lobo".....	4,800	Nov. 11..	Nov. 12..	200 00	7 20	207 20
SS. "Princess Louise".....	4,042	" 29..	" 30..	200 00	17 40	217 40
SS. "Amur".....	907	Dec. 5..	Dec. 11..	550 00	106 80	656 80
SS. "Canadian Importer".....	5,500	" 12..	" 16..	850 00	40 20	890 20
SS. "Margaret Coughlin".....	5,825	" 16..	" 17..	200 00	47 40	247 40
		1922				
SS. "Canadian Traveller".....	5,492	Jan. 9..	Jan. 11..	474 60	75 60	550 20
SS. "Canadian Winner".....	5,492	" 14..	" 18..	849 52	114 00	963 52
SS. "Arizonian".....		expenditure cleaning dock			153 25	153 25
SS. "Canadian Scottish".....	5,333	Feb. 14..	Feb. 15..	546 66	3 60	550 26
SS. "Canadian Inventor".....	5,500	" 18..	" 19..	200 00	8 40	208 40
SS. "Canadian Prospector".....	5,460	Mar. 9..	Mar. 10..	200 00	3 00	203 00
SS. "Canadian Freighter".....	5,492	" 13..	" 14..	200 00	2 40	202 40
SS. "Romulous".....	5,707	" 14..	" 15..	200 00	3 00	203 00
SS. "Talaralite".....	2,631	" 16..	" 17..	200 00	2 40	202 40
SS. "Admiral Faragut".....	2,141	" 20..	" 24..	648 40	27 60	676 00
SS. "Canadian Transporter".....	5,492	" 24..	" 25..	474 60	4 20	478 80
	150,134			29,281 38	1,375 85	30,657 23

THE LORNE DRY-DOCK AT LEVIS, P.Q.

STATEMENT of Dues and other charges collected during the year ending March 31, 1922

Name of Vessel Docked	Tonnage	Period of Dockage		Dockage Charges	Other Charges	Total
		From	To			
				\$ cts.	\$ cts.	\$ cts.
SS. "John S. Thom".....		Wintering		1,000 00		1,000 00
SS. "Keyingham".....		Entry fee		200 00		200 00
SS. "Mapledawn".....		"		200 00		200 00
SS. "Alice".....		Wintering		606 00		606 00
SS. "Keyingham".....	3,656	May 25	June 23.	5,815 00	28 25	5,843 25
SS. "Vetch".....	2,202	July 17.	July 17..	1,344 64	80 00	1,424 64
SS. "Mapledawn".....	2,404	June 25	July 12..	2,198 75	17 50	2,216 25
SS. "Rygja".....	3,600	July 17	July 19..	892 50		892 50
SS. "Rapids King".....		Entry fee		200 00		200 00
SS. "Cartier".....	556	April 27.	May 3	500 00		500 00
SS. "Arctic".....	762	" 27	" 19.	1,620 00		1,620 00
SS. "Rapids King".....	1,801	July 22	Aug. 25..	3,030 00	81 75	3,111 75
SS. "Arminore".....	1,170	Aug. 20..	Aug. 25..	374 00		374 00
SS. "Beaverton".....		Entry fee		200 00		200 00
SS. "Maskinonge".....		"		200 00		200 00
SS. "Mapleheat".....		"		200 00		200 00
SS. "Innerton".....		"		200 00		200 00
SS. "Beaverton".....	2,012	Aug. 16..	Aug. 25..	2,784 50	10 50	2,759 00
SS. "Innerton".....	5,276	Sept. 17..	Oct. 8..	5,202 50	7 50	5,210 00
SS. "Loose".....	356	Aug. 16..	Aug. 20..	400 00		400 00
SS. "Canadian".....	2,214	Nov. 5.	Nov. 23..	2,340 50		2,340 50
SS. "Gyp".....	3,290	Nov. 23..	Nov. 26.	552 50	4 50	557 00
SS. "John S. Thom".....		Entry fee		200 00		200 00
SS. "Q.H.C. Crane".....		"		200 00		200 00
SS. "Champlain".....		Wintering		700 00		700 00
SS. "Mapleheat".....	1,692	Oct. 17..	Nov. 5..	2,010 00	22 50	2,032 50
SS. "Canadian Commander".....		Entry fee		200 00		200 00
	30,991			33,334 89	252 50	33,587 39

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THE CHAMPLAIN DRY-DOCK AT LEVIS, P.Q.

STATEMENT of Dues and other charges collected during the year ending March 31, 1922

Name of Vessel Docked	Tonnage	Period of Dockage		Dockage Charges	Other Charges	Total Total
		From	To			
		1921	1921	\$ cts.	\$ cts.	\$ cts.
SS. "Canadian".....	2,214	May 6..	May 7..	364 50	.....	364 50
SS. "Canadian Sower".....	2,069	June 17	June 20..	576 56	.....	576 56
SS. "Mapleton".....		Entry fee		200 00	.....	200 00
SS. "Mapleton".....	1,781	July 2..	July 14	1,194 00	.....	1,194 00
SS. "Vela".....	3,589	July 16..	July 18..	941 36	.....	941 36
SS. "Canadian Miner".....	1,766	July 18..	July 21..	503 84	.....	503 84
SS. "Canadian Settler".....		Entry fee		200 00	.....	200 00
SS. "Canadian Raider".....		"		200 00	.....	200 00
SS. "Mapledawn".....	2,404	July 15..	July 18	1,733 75	.....	1,773 75
SS. "Vermount".....	1,799	July 23..	July 29	578 00	6 00	584 00
SS. "Montcalm".....	1,432	May 24..	May 28	550 00	10 00	560 00
SS. "Lady Grey".....	733	" 24..	" 28..	500 00	.....	500 00
SS. "Bayfield".....	276	June 20..	June 22..	160 00	80 00	240 00
SS. "Canadian Challenger".....		Water supplied			30 00	30 00
SS. "Canadian Raider".....	3,384	Aug. 8..	Aug. 11..	580 00	3 50	583 50
SS. "Canadian Settler".....	3,548	Aug. 11..	Aug. 25..	2,995 00	72 00	3,067 00
SS. "J. A. McKee".....	2,158	Aug. 26..	Aug. 30..	597 92	.....	597 92
SS. "Naragansett".....		Entry fee		200 00	.....	200 00
SS. "Manoa".....		"		200 00	.....	200 00
SS. "Kamarina".....		"		200 00	.....	200 00
SS. "Thunder Bay".....		"		200 00	.....	200 00
SS. "Hamilton".....		"		200 00	.....	200 00
SS. "Sheba".....		"		200 00	.....	200 00
SS. "Maplehurst".....		"		200 00	.....	200 00
SS. "McKinstry".....		"		200 00	.....	200 00
SS. "Glenellah".....		"		200 00	.....	200 00
SS. "Sheba".....	2,268	Sept. 7..	Sept. 13	868 75	7 50	876 25
SS. "Canadian Sapper".....		Entry fee		200 00	.....	200 00
SS. "Maplehurst".....	1,297	Sept. 7..	Oct. 1..	2,010 00	15 00	2,025 00
SS. "Canadian Sapper".....	2,800	Oct. 4	Oct. 6	248 00	80 00	328 00
Bge. "Geo. T. Davie".....		Entry fee		200 00	.....	200 00
SS. "Thunder Bay".....	1,869	Aug. 11..	Oct. 22..	8,958 00	.....	8,958 00
SS. "Hamilton".....	1,613	Aug. 11..	Oct. 22..	7,994 00	.....	7,994 00
Bge. "Geo. T. Davie".....	680	Oct. 22..	Nov. 16	1,180 00	.....	1,180 00
SS. "Edmonton".....	1,982	Nov. 18..	Nov. 29..	1,566 25	.....	1,566 25
SS. "Kenora".....	1,955	Nov. 18..	Nov. 29..	1,559 50	.....	1,559 50
H.M.S. "Wistaria".....	915	Oct. 22..	Nov. 19..	1,620 00	25 50	1,645 50
	42,532			40,079 43	329 50	40,408 93

THE REPAIR SLIP AT SELKIRK, MAN.

STATEMENT of Dues and other charges collected during the year ending March 31, 1922

Name of Vessel Docked	Tonnage	Period of Dockage		Dockage Charges	Other Charges	Total
		From	To			
		1921	1921	\$ cts.	\$ cts.	\$ cts.
"Wolverine"	278	April 1	April 30	117 00	.....	117 00
"Wolverine"	278	May 1	May 6..	22 50	.....	22 50
"Idell"	54	May 7..	May 12	110 00	.....	110 00
"Rocket"	56	May 13	May 17.	100 00	.....	100 00
"Amisk"	32	May 17..	May 21..	110 00	.....	110 00
"Goldfield"	56	May 17..	May 21..	110 00	.....	110 00
"Grand Rapids"	438	June 13	June 13..	87 60	.....	87 60
"Fort Alexander"	316	July 25	July 30.	173 80	.....	173 80
"Wolverine"	278	Aug. 9..	Aug. 10..	69 50	.....	69 50
"Bradbury"	476	Aug. 15..	Aug. 31..	737 80	.....	737 80
"Tempest"	75	Sept. 2	Sept. 6	70 00	.....	70 00
"Daisy"	58	Sept. 2..	Sept. 6..	70 00	.....	70 00
"Roddy S."	56	Sept. 7..	Sept. 13..	130 00	.....	130 00
Barge "Alexandra"		Sept. 16..	Sept. 22..	130 00	.....	130 00
"Vaughan"	134	Oct. 6..	Oct. 7..	50 00	.....	50 00
Coal Barge		Oct. 7..	Oct. 11	90 00	.....	90 00
"Peguis"	39	Oct. 14	Oct. 15	50 00	.....	50 00
"Wolverine"	278	Oct. 26..	Oct. 28..	83 40	.....	83 40
"Victor"	26	Oct. 29..	Oct. 31..	50 00	.....	50 00
"Phyllis Williams"	164	Nov. 2..	Nov. 4..	90 00	.....	90 00
Dredge "No. 201"	442	Nov. 5	Nov. 5	88 40	.....	88 40
	3,534			2,540 00	.....	2,540 00

REPORT OF THE ACCOUNTS BRANCH
BY A. G. KINGSTON, CHIEF ACCOUNTANT
PART I

EXPENDITURES FROM APPROPRIATIONS GRANTED FOR PUBLIC WORKS

Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
PUBLIC BUILDINGS									
Nova Scotia									
Amherst drill hall, grading, etc.....	3,837 03								3,837 03
" post office, etc.....		1,339 80		858 85	580 15	591 72	30 86		3,401 38
Annapolis, entomological laboratory.....	32 96								32 96
" post office.....	15,391 03	409 96		1,633 85	478 14	117 41	32 66		18,063 05
" (temporary).....		38 72	275 00	18 50					332 22
Antigonish, post office, etc.....		379 65	3 10	890 80	622 80	285 58			2,181 93
Arichat,		362 60		205 38	362 00	133 85			1,063 83
Baddeck		443 45		775 90	492 50	11 70			1,723 55
Bridgewater		77 17		876 05	450 37	3 70			1,407 29
Canso,		847 38		898 40	614 25	423 09	20 00		2,803 12
Dartmouth, armoury.....		271 68							271 68
" post office (old).....		217 58					27 00		244 58
" (new).....				893 25	873 89	497 05	40 00		2,304 19
Digby (Warne Bldg.) Fisheries Inspector's office.			200 00						200 00
" post office.....		625 21	50 00	861 19	515 01	409 68	80 00		2,541 09
Glace Bay, post office.....		154 79		1,080 00	843 77	228 18	33 00		2,339 74
Guysborough		774 10		317 22	556 50	428 50			2,076 32
Halifax, (Bellevue Bldg.) Archives office.....	2,980 42	4,729 73	196 30	2,305 15	1,637 41	0 50			11,849 51
" custom house.....	2,253 61	976 88	22 04	7,329 73	3,199 17	525 28	590 70	119 28	15,016 69
" Dom. Analyst, (52 Bedford Row).....		356 29	1,350 00						1,706 29
" examining warehouse.....				1,010 49	77 25	105 68			1,193 42
" (Heslin Block) Fisheries Dept.....		143 20	1,576 40						1,719 60
" immigration building.....		766 16							766 16
" " office, pier No. 2.....		216 97							216 97
" Lawlor's Isld. quarantine station.....	52,952 01	376 65			1,057 80				54,386 46

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$
	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.
PUBLIC BUILDINGS									
Nova Scotia—Concluded									
Halifax post office	2,098 31	1,311 18		9,858 50	3,281 82	2,638 24	567 17	514 76	20,269 98
" "Rockhead" public building		1,653 87		243 80	1,090 21	13 37			3,001 25
" Bisset storage, 153 Lower Water St. (P.O. and P.W. Depts.)			300 00						300 00
" (Eastern Trust Bldg.) Inspector of Tax- ation			507 11						507 11
" Steamship Inspector's office			200 00						200 00
" North end, post office (site)							13 20		13 20
" weights and measures office (229 Hollis St.)			810 00						810 00
" Generally		902 26				289 71			1,191 97
Inverness, post office		953 09		849 20	625 00	274 50	23 25		2,725 04
Kentville, experimental farm	3,949 18				778 83	233 04			4,961 05
" post office, etc.		538 60		796 40	487 98	248 78	50 00		2,121 76
Liverpool,		715 86		784 52	472 50	248 49	18 00		6,137 58
Lunenburg, post office	3,898 21	185 69		799 57	444 41	486 67	59 00		1,975 34
Nappan, experimental farm				827 80	234 48	226 85			2,714 93
New Glasgow, post office, etc.	2,253 60	358 48			615 00	745 69	100 00		2,646 97
North Sydney, immigration building		505 25			234 03				799 28
" quarantine station		71 19							71 19
" master and mates office			180 00						180 00
" post office		634 43		862 30	1,353 35	601 78	32 00		3,483 86
" Public Works office (Engineer)			246 00			3 72			249 72
Parrsboro, post office		172 98		779 95	1,242 01	269 99	52 00		2,524 43
Pictou, custom house		456 07	7 50	450 50	635 14	16 42	14 27		1,572 40
" post office		76 73		356 25	1,022 75	181 54	41 40		1,678 67
Shelburne, post office, etc.		348 68		849 90	472 55	203 37			1,874 50
" " "		483 75		791 71	582 88	176 66			2,035 00
Springhill,									345 83
Stellarton,			345 83						2 33
Sydney, immigration office		2 33							980 00
" ("Post" Bldg.) Marine and Fisheries		228 00	752 00		1,562 58	600 35			4,104 35
" post office, etc.		1,487 37	36 00	718 05	315 00				315 00
" quarantine station									472 00
Sydney Mines, armoury		472 00			930 05	128 04	37 00		2,148 09
" post office, etc.		268 45		785 15	120 00	64 18			768 80
Trenton,		0 75	583 87						

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$
	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.
Public Buildings									
New Brunswick—Continued									
Fairville, post office.....		81 62		835 55	827 75	111 54	17 10		1,873 56
Fredericton, custom house (old post office) ..		282 00		881 26	642 25	199 37	52 46		2,057 34
" experimental farm.....	2,267 71				783 41				3,051 12
" military hospital.....				452 90					452 90
" post office.....		512 06		1,506 42	1,226 35	926 96	53 53		4,225 32
Grand Falls, post office.....		55 16		882 89	340 90	147 84	33 00		1,459 79
Hampton, post office (Ossekeag).....		142 15	25 00	807 06	312 01	22 90			1,309 12
Hartland, post office, etc.....		226 20		653 30	394 25	60 65	30 00		1,364 40
Hillsborough, post office, etc.....		27 12		791 40	153 25	147 05			1,118 82
McAdam Junction, immigration office ..		14 45							14 45
Marysville, post office.....		40 90		174 52	408 02	58 65	24 00		706 09
Milltown, post office, etc.....		31 53		860 70	462 66	199 78	39 60		1,594 27
Moncton, armoury.....	4,593 50								4,593 50
" examining warehouse.....	859 50		2,400 00	0 80	106 50	9 50			1,111 30
" Labour Dept.....		4 50	480 00						484 50
" post office.....	927 01	927 25		1,072 96	3 56	600 90	134 00		3,665 62
" additional		48 00	1,100 00		841 50	235 31			2,224 81
Newcastle, post office, etc.....		313 08		873 45	710 32	641 60	35 00		2,573 45
Richibucto, post office.....		231 98		796 00	424 24	200 32			1,652 54
St. Andrews, immigration office.....		9 80						9 80	9 80
St. John, custom house.....	3,492 77	1,744 73	240 52	5,656 15	4,899 19	637 76	2,762 45	184 32	19,617 89
" railway station, mail room.....		134 00	150 00						284 00
" immigration building.....	1,500 00	6,606 05	2,105 32		7,770 04	645 65	328 75		18,955 81
" post office (old) Marine, Public Works, etc.....									
" post office (new).....	2,629 70	1,458 10		3,586 00	2,258 78	526 71	199 97		8,029 56
" Partridge Isld. quar. station.....	95,454 16	2,552 01		12,242 06	3,182 01	1,733 04	498 34	870 00	23,707 16
" savings bank.....		321 57			5,591 19		1,198 65		102,565 57
St. John West, post office.....		3,227 67		811 12	795 28	234 69	76 44		5,145 20
" generally		102 82		418 23	1,202 24	204 12	9 98		1,937 39
St. Leonard, immigration office.....		106 15		926 96					333 11
St. Stephen, immigration office.....		9 30							9 30
" post office, etc.....		9 40	300 00		111 00				420 40
Sackville, armoury.....	1,410 52	333 89		808 52	510 16	184 46	77 41		3,324 96
Sussex, post office, etc.....	45 13	1,793 39							1,793 39
Tracadie Lazaretto.....		51 22		795 21	368 55	185 71	58 00		1,503 82
Woodstock, post office, etc.....		772 07		2,270 00	11,385 84	15 00			14,442 91
		59 75		883 47	494 29	450 29	47 50		1,935 30

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New Brunswick Generally—Minor offices throughout the Province	2,419 12	7,411 24	41,510 45	48,800 40	425 11	5,879 68	1,054 32	2,844 23
Totals, New Brunswick	26,198 23	7,411 24	41,510 45	48,800 40	9,795 14	5,879 68	1,054 32	253,829 46
Quebec—								
Acton Vale, post office.	717 85		827 49	332 15	150 43	28 00		2,055 92
Armstrong, custom and immigration building.				120 00				120 00
Arthabaska, post office.	271 20		944 01	607 93	141 66	100 00		2,064 80
Asbestos, post office.		200 00						200 00
Aylmer, post office.	330 93							1,158 95
Beauharnois, post office.	3 25	305 00	140 68	424 95	216 64	45 75		637 81
Bedford, post office.	1,456 82	183 33	2 10	279 17	48 29	8 00		1,826 37
Beebe Junction, immigration office.	28 70				0 40			28 70
Berthierville, post office.	32 13		144 97		61 83	66 00		645 73
Black Lake, post office.		150 00						150 00
Brownsburg, immigration office.		99 96						99 96
Buckingham, immigration office.	24 53		277 55	402 42	129 35			4,766 53
Cap Rouge, experimental farm.				1,639 56	10 00			9,161 34
Chicoutimi, post office, etc.	157 51	152 32	932 76	640 00	509 55	300 00		2,692 14
Coaticook, immigration office.	13 90							13 90
Coaticook, post office, etc.	850 52		809 43	562 59	269 62	67 50		2,559 66
Compton, post office.		110 00						110 00
Cookshire, post office, etc.	444 62		855 23	656 89	138 99	20 00		2,115 73
D'Israeli, post office, etc.		210 00						1,778 23
Drummondville, post office, etc.			1,066 07	309 40	94 36			1,536 39
Dundee, custom house.	66 56		12 97	245 40	63 00			618 46
East Angus, post office.	297 09		964 09	445 46	234 30			3,070 42
Farnham, experimental farm.				66 00	46 00	23 00		906 05
“ post office.	62 00			579 94	81 60	38 00		3,550 82
Fraserville, post office, etc.	497 90	300 00	845 53	606 28	152 20	200 00		2,686 05
Gaspé, post office.	20 09	131 25	929 67	198 75	40 15			1,908 42
Granby, armoury.								263 30
“ post office.	411 51		1,044 73	631 81	359 79	150 00		8,208 70
Gross Isle, quarantine station.				6,665 40				25,166 67
Hemmingford, entomological laboratory.	8 00							8 00
“ immigration office.		60 00		9 00				69 00
Highwater, immigration office.	14 20							14 20
Hull, post office.	287 22		159 30	932 27	225 09	387 56		3,346 08
Hull, research laboratory.				954 37	5 58			1,231 03
Huntingdon, post office.		750 00						750 00
Iberville, post office.			513 99	181 75	33 54	47 50		1,867 63
Joliette, post office, etc.	252 66		971 84	1,126 09	271 37	110 00		2,731 96
Jonquières, post office, etc.	94 90		885 44	398 33	124 91	19 20		1,522 78
Knowlton, post office, etc.	740 24		228 61	117 35	148 67	21 00		1,255 87
Lachine	594 02		151 46	447 30	153 83	58 34		1,404 95
“	636 25		841 26	347 49	417 96	37 50		2,310 46
Lachute	79 08	108 00		94 30	9 00			290 38
Lacolle, immigration office.				456 47				2,256 46
La Ferme, experimental farm.	1,799 99			380 09	113 33	45 00		863 72
Laprairie, post office.	149 90		175 40	393 03	78 75			930 11
L'Assomption, post office.	22 08		371 25			65 00		

DEPARTMENT OF PUBLIC WORKS

13 GEORGE V, A. 1923

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$
	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.
PUBLIC BUILDINGS									
Quebec—Continued									
Lennoxville, experimental farm.....	6,194 24				626 72	138 11			6,959 07
Lévis, post office, etc.....		886 24		1,462 68	890 28	168 91	300 00		3,708 11
Longueuil, post office.....		585 90		828 14	287 79	51 00	62 70		1,815 53
Louiseville, post office.....		25 20		893 80	362 57	147 95	37 50		1,467 02
Loretteville, post office.....			137 50			3 00			140 50
Magog, armoury.....	548 00								548 00
" post office, etc.....		363 79		1,007 64	491 02	92 92	58 92		2,014 29
Marieville, post office.....		1,898 78		815 10	414 50	87 54	34 00		3,249 92
Matane, post office.....		58 10		928 98	460 00	74 20	11 00		1,532 28
Megantic, immigration office.....		9 30							9 30
" post office.....		24 43		825 11	925 86	297 67			2,073 07
Mont Joli, post office.....		51 92	240 00		168 80	69 83			530 55
Montmagny, post office, etc.....		171 07	49 67	911 50	203 86	131 50	50 00		1,517 60
" D. P. W. storage.....			29 17						29 17
Montreal (Ames Holden Bldg.), Railways and Canals.....		88 02	2,225 31	0 95					2,314 28
" (Board of Commerce Bldg.) 15 St. James street.....			42 50						42 50
Bonaventure Sta., mail room.....		63 00	144 00						207 00
(Coristine Bldg.) Trade and Commerce Custom house.....	2,000 00	5,183 52	849 96						849 96
" canal office.....		50 00	47 98	120 21	2,570 70	455 01	944 05		11,321 47
Examining warehouse (old).....	3,376 47	213 03		1 50	10 89	21 56	17 46		101 41
" (new).....	5,088 64	879 87		252 90	7,796 61	1,297 99	1,480 34	591 96	15,009 30
Forest products laboratory.....				432 75	9,585 82	3,322 70	4,074 00	3,039 96	26,423 74
Immigration building.....					532 54	1,155 38	422 86	1,831 24	3,942 02
Inland revenue bldg.....		3,464 85	132 85		4,896 92	5,360 43	1,413 05	163 92	15,299 17
(La Sauvagarde) Signal service.....		2,535 81	435 42	6 13	791 28	78 69	232 80	103 14	3,880 70
Ordnance stores.....	22,649 97			17 05					435 42
Place Viger station, mail room.....			211 83						22,667 02
post office (main).....	34,010 73	1,210 74	281 66	708 58	12,649 14	9,622 12	7,250 28	4,868 04	70,601 29
" (annex old Herald bldg.).....		194 59	5,185 35	10 71	265 11	34 28		124 77	5,814 81
postal station "A".....	1,577 00	306 73		139 15	543 00	365 69	766 50	716 04	4,414 11
" "B".....	1,015 94	2 65		61 15	973 35	343 13	698 40		3,094 62
" "C".....	1,447 35	9 20		36 95	967 57	280 64	787 66		3,529 37
" "D".....		847 48		35 05	763 43	197 05	182 73		2,025 74
" "E".....		493 15		38 05	465 71	162 97	84 70		1,244 58
" "F".....		132 45		47 94	1,043 66	273 02	190 21		1,687 28

DEPARTMENT OF PUBLIC WORKS

13 GEORGE V, A. 1923

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total	
	\$	cts.	\$	cts.	\$	cts.	\$	cts.	\$	cts.
Quebec—Concluded										
Rock Island, post office, etc.		15 58		897 56	645 26	213 45	28 52		1,800 37	
Ste. Agathe des Monts, post office.		1,204 85		911 02	436 60	179 17	151 00		2,882 64	
Ste. Anne de Bellevue, post office.		21 00	250 00		85 31	14 14	26 60		397 05	
Ste. Anne de la Pocatière, experimental farm.	3,013 29				1,035 81				4,049 10	
St. Eustache, post office.			360 00			26 58	30 00		416 58	
St. Félix de Valois, post office.			87 00						87 00	
St. Gabriel de Brandon, post office.		345 63		869 80	434 52	123 89	25 00		1,798 84	
St. Georges de Beauce, post office.			150 00						150 00	
St. Hyacinthe, inland revenue building.									1,629 39	
“ post office, etc.	1,685 46	542 10		477 34	397 78	23 17	189 00		4,239 50	
St. Jacques de l'Achigan, post office.	288 60	244 70		1,558 85	396 44	165 05	189 00		502 10	
St. Jean, custom house.		0 20	213 30						1,626 85	
“ post office.		932 90		323 03	275 50	35 42	60 00		1,756 34	
St. Jérôme, post office.		223 84		391 43	390 90	150 17	600 00		1,853 91	
St. Joseph de Beauce, post office.		347 78		846 20	524 69	71 26	63 98		345 86	
St. Lambert, post office.		61 90	250 00		405 94	24 96	9 00		1,502 45	
St. Ours, post office.	25 75	160 46		847 48		62 05	26 52		25 75	
Ste. Rose, post office.			162 00						162 00	
Ste. Thérèse, post office.		80 45		930 37	424 93	249 01			1,684 76	
St. Tite, post office.			150 00		8 00	30 09	45 00		233 09	
Sayabec, post office.			119 79						119 79	
Shawinigan Falls, post office.		256 22		1,087 94	802 98	99 12	45 77		2,292 03	
Shawville, post office.		883 89		801 95	628 96	274 11			2,588 91	
Sherbrooke, C.N.R. Station, mail room.			300 00						300 00	
“ Dist. Engineer's office (D.P.W.).			11 55						11 55	
“ post office, etc.	1,072 37	335 54	83 33	1,573 06	927 39	837 82	58 49		4,888 00	
“ post office inspector's office.	2,255 05	41 09	996 00	1,041 73	1,107 55	535 13	250 00		1,063 19	
Sorel, post office, etc.		7 00							5,196 46	
Stanstead, post office.			275 00						275 00	
Terrebonne, post office, etc.		24 95		349 31	402 68	1 05	17 00		794 99	
Thetford Mines, post office, etc.		120 54		200 27	449 61	240 00			1,010 42	
Trois Pistoles, post office.			100 00						100 00	
Trois Rivières, post office, etc.	1,712 36	424 23	98 90	3,104 35	1,819 04	773 94	4,050 00		11,982 82	
Valleyfield, post office, etc.		242 60		1,185 90	1,017 64	244 47	90 00		2,810 61	
Victoriaville, post office, etc.		363 61	1 00	471 31	677 14	123 62	100 00		1,736 68	
Quebec Province Generally—Minor offices throughout the Province.		2,995 29			321 50	1,924 28			5,241 07	
Totals, Quebec	162,244 97	76,457 86	67,472 79	271,755 68	114,421 50	49,697 33	35,631 45	18,610 39	796,291 97	

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Sundry Mainten- ance	Rents	Salaries	Heating	Lighting	Water	Power	Total
<i>Ottawa—</i>										
Parliament Buildings.....	1,009,670 09				15,458 67	*	13,662 97	33 59	7,898 75	1,046,724 07
“ Library, alterations to stack room.....	9,172 77									9,172 77
(Central heating plant, operation for the heating of sundry build- ings.....										
City post office.....	10,060 76				20,989 20	156,987 19	487 17		1,042 50	179,506 06
Drill hall.....		4,806 38			10,125 00	* 435 67	1,736 91	1,338 65	884 65	24,581 64
Ordnance stores.....								810 28		4,806 38
Departmental buildings—										810 28
Daily Building.....	100,944 40				7,050 00	18,667 85	3,246 58			129,908 83
East Block.....					5,565 00	*	6,979 86		849 20	14,531 33
West Block.....	1,812 46				6,245 00	* 398 01	4,743 29	1,137 27	1,318 60	17,703 49
Connaught Bldg. (Stokers).....	17,682 00				11,640 00	13,209 35	3,901 81	458 99	4,248 60	51,140 75
Hunter Bldg.....					14,580 00	30,270 01	5,033 70	716 43	2,666 65	53,266 79
Langevin Block.....		853 48			7,005 00	*	3,374 84	488 63	1,160 40	13,182 35
(Grounds, including Major's Hill Park.....			2,361 69		960 00	2,365 72	421 49			6,108 90
Heating plant, equipment.....	2,680 83									2,680 83
Repairs and furniture.....		223,130 46			452,496 80					675,627 26
Steel fittings.....	88,682 21									88,682 21
Telephone service.....			87,537 03							87,537 03
Maintenance of acquired proper- ties—										
Sussex street.....	914 33				1,860 00	758 02	29 08	125 29		3,686 72
Wellington street, East.....					3,100 00	1,515 34	267 60	211 40		5,094 34
“ West.....	7,504 28				17,100 00	27,724 30	2,857 43	9,725 62	480 95	65,392 58
Archives Bldg.....					1,200 00	2,598 08	431 80	107 18	236 00	4,573 06
Astronomical observatory and Geodetic bldg.....			3,560 08		5,710 00	1,921 89	950 04		77 50	12,219 51
Biological laboratory.....						102 01	152 13		67 40	321 54
Experimental farm.....	27,403 98					12,144 95	1,140 90	1,714 89	2,061 00	44,465 72
Fuel testing plant.....					2,370 00	3,995 43	740 37	314 79	2,640 00	10,060 59
“ “ partial recon- struction of ore dressing plant.....	1,256 00									1,256 00
Mines bldg., Sussex st.....					3,540 00	3,317 78	2,661 71	277 21	724 95	10,521 65
National Art Gallery.....	25,122 33		9,914 41		4,941 58					39,978 32

*For total cost of heating each of these seven buildings see statement below.

AMOUNTS EXPENDED BY THE DEPARTMENT OF PUBLIC WORKS OF CANADA DURING THE FISCAL YEAR ENDED MARCH 31, 1922—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Sundry Mainten- ance	Rents	Salaries	Heating	Lighting	Water	Power	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ottawa—Concluded										
Office for chief electoral officer (Wellington St.)	11,670 77									11,670 77
Printing bureau, elevators, stock- ers, additions, etc.	28,398 29					20,884 27	10,903 48	1,778 37	3,200 04	65,164 45
Public Works, workshop.					3,360 00	5,161 66	474 08	507 29	67 50	9,570 53
Rideau Hall		15,624 26			24,370 63	82 62		4,253 94		44,331 45
grounds, green house, etc.			3,090 94		15,034 73					18,125 67
snow			2,449 00							2,449 00
fuel and light.			17,000 00							17,000 00
Rockliffe, rifle range	15,093 87							1,832 31		1,832 31
Royal Mint								2,269 34		2,269 34
S.C.R. bldg., Victoria St. (now Census Office), addition.	14,683 76					3,213 41	258 06			20,834 68
Supreme Court										
Victoria Island shipyard					2,805 00		607 93	61 57		14,683 76
Victoria Memorial museum.	4,686 45				2,370 00	620 56	195 35	220 06		3,474 50
Wellington street pavement.		57,792 53			11,770 00	20,622 02	4,573 47	544 67	1,852 35	3,405 97
Carling Ave., "grading" paid on account to the city of Ottawa.	7,900 00									44,048 96
City taxes on local improvements	17,593 17									57,792 53
Departments Generally—Care and cleaning departmental buildings, including amount of \$100 to E. Snowdon for firing noon gun.			13,854 61		361,823 36		17,936 90	2,896 11		375,677 97
Sundry rented buildings	122 35			689 726 53	35,816 00	45,031 23			7,737 30	799,266 42
Totals Ottawa buildings.	1,403,055 10	302,207 11	139,767 76	689,726 53	1,049,285 97	372,027 37	87,768 95	35,010 01	39,514 34	4,118,363 14

*For total cost of heating each of these seven buildings see statement below:—

Re CENTRAL HEATING PLANT, AND BUILDINGS SERVED THEREBY

The operation of the Central Heating Plant is devoted entirely to the heating of the seven buildings named below and in the present statement the total cost of operation (\$179,506.06) is apportioned to each in the ratio of its cubic contents. To this there is added here some minor expenditures incurred for the salary of the engineer controlling the local distribution of steam, also purchase of grate coal, etc.

Name of Building	Heat from Central Heating Plant	Sundry other heating items	Total cost of heating each building
	\$ cts.	\$ cts.	\$ cts.
Parliament Building.....	82,717 12	9,377 30	92,094 42
East Block.....	29,241 72	2,774 44	32,016 16
West Block.....	28,596 57	3,738 82	32,335 39
Languevin Block.....	20,720 74	2,128 06	22,848 80
City Post Office.....	5,935 01	2,317 65	8,252 66
Supreme Court.....	5,866 97	993 74	6,860 71
Census Building (Vittoria St.—formerly Dept. S.C.R.).....	6,427 93	1,022 03	7,449 96
	179,506 06	22,352 04	201,858 10

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
Public BUILDINGS									
<i>(Ontario excluding Ottawa)</i> —									
Acton, post office, etc.	965 17	80 30	585 00	869 30	492 83	171 01	25 34		1,038 78
Alexandria, post office, etc.		1,357 53		635 00	388 25	114 31	11 82		4,057 08
Almonte,		702 62		925 36	653 68	282 59	43 75		2,608 00
Amherstburg		560 31		769 32	546 42	81 94	60 00		2,017 99
Angus, Camp Borden, Air Force		1,474 11		857 02	578 12	222 52			1,696 63
Arnprior, post office, etc.		279 01		17 50	542 20	381 07	33 60		2,128 82
Athens		194 27			421 38	192 30			946 27
Aurora		14 32		888 43		34 26	16 00		1,374 39
Aylmer (West) post office, etc.		338 02		898 10	436 95	125 09	38 09		1,836 25
Barrie, post office, etc.	1,797 07	162 20		920 75	865 20	112 71	50 00		3,907 93
Belleville, armoury		25 67							25 67
" food inspector's office.			205 77						205 77
" income tax office.		1,256 75	1,826 76	800 27	880 77	713 39	102 74		3,083 51
" post office, etc.		1,273 09							3,770 26
" weights and measures office		140 55	1,200 00						1,349 55
Blenheim, post office.			200 00						200 00
Bowmanville, armoury		12 00							12 00
" post office, etc.		447 62		857 85	362 00	158 53	28 61		1,851 61
Bracebridge, post office, etc.		103 91		843 25	424 74	67 64	7 11		1,446 65
Brampton		1,746 54		958 08	562 13	92 50	25 52		3,384 77
Brantford, armouries.	912 67								912 67
" post office, etc.	3,182 05	440 70		6,545 15	1,726 41	260 52	46 44	285 85	12,487 12
Bridgeburg, immigration building.		28 15							28 15
" post office, etc.		931 50		810 60	428 76	80 62	25 00		2,276 48
Brighton		96 20	176 00						176 00
Brockville, gas and electric insp. office.			180 00						276 20
" post office.		1,463 02		1,481 56	911 70	642 81	212 40		4,711 49
" railway mail room.		272 35	24 00						296 35
Burford, post office, etc.		79 80		805 00	390 26	119 95			1,395 01
Campbellford, armoury.		24 68							24 68
Cardinal, post office.		950 30		23 95	249 35	95 18	15 00		1,333 78
Carleton Place, post office, etc.		93 48		848 25	545 16	163 46	36 53		1,686 88
Cayuga, post office, etc.		12 10		323 27	100 74	140 76			576 87
Chapleau	231 77		250 00						250 00
Chatham		406 52		861 66	472 29	148 14	35 47		2,158 85
Chesley		546 15		852 81	434 23	209 46	31 25		2,073 90
Clinton		76 23		847 20	361 28	165 34	16 11		1,466 16
Cobalt			2,000 00						2,000 00

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	452 32	877 97	371 04	158 08	34 12	1,893 53
Cobourg						748 65
Collingwood, armoury						5,633 68
“ post office, etc.	2,770 40	1,309 06	1,256 65	239 29	58 28	256 60
Cornwall, armoury	13 90					13 90
“ immigration office	656 78	811 10	602 90	279 10	37 50	2,387 38
“ post office, etc.	107 25	890 91	540 20	213 64	39 00	1,791 00
Deseronto	11 94	862 89	405 25	125 42	21 00	1,426 50
Dresden, post office	88 93	852 36	598 86	118 77	32 24	1,691 16
Dundas	107 00					107 00
Dunnville, armoury						
“ public building, removal of old building on site	213 50					213 50
Eganville, post office, etc.	22 35	855 68	579 17	237 35	34 00	1,728 55
Elmira,	75 65	900 22	369 28	114 95	12 26	1,472 36
Elora	36 79	848 91	483 58	77 97	8 25	1,455 50
Essex	81 23	846 54	612 34	140 98	45 00	2,258 59
Fergus	12 15	878 43	469 67	76 03	25 00	1,461 28
Fort Frances, Engineer's office (D.P.W.)		210 00				210 00
“ immigration building	75 65					75 65
Fort William, armoury						1,336 30
“ examining warehouse	593 66	3,762 58	673 16	131 01	162 00	5,586 16
“ income tax office	1,174 98					2,374 98
“ post office	487 67	843 30	592 48	313 75	90 00	2,327 20
“ generally				124 02		124 02
Galt, post office, etc.	238 94	918 68	486 48	137 16	70 20	1,851 46
Gananoque, custom house	762 61	35 00	48 25	57 27	17 03	920 16
“ post office, etc.	931 05	1,163 00	766 68	160 94	32 81	3,054 48
Glencoe	261 97	838 25	425 42	192 18	48 00	1,765 82
Goderich	194 08	810 97	527 56	103 84	60 00	1,696 45
Grimsby	236 17	861 45	423 77	89 53	20 00	1,630 92
Guelph	2,022 58	975 34	819 30	215 63	65 68	4,098 53
Hamilton, gas and electric inspector's office	55 81		122 62	25 60		924 03
“ income tax office	3,796 06	10 10		20 00		8,216 16
“ post office, etc.	2,875 54	11,683 37	2,414 44	386 66	1,440 90	20,932 52
“ postal station “B”	171 56	956 65	630 00	17 04	56 61	4,668 36
Hamilton postal station “B” (old)						135 00
“ railway mail room	51 38					131 38
“ weights and measures office	13 00		163 45	6 22		772 67
Hanover, post office, etc.	69 88	852 15	544 10	139 58	38 00	1,643 71
Harriston, post office, etc.	196 79	592 08	597 14	138 52	19 00	1,543 53
Harrow, tobacco curing station						1,473 74
Hawkesbury, post office, etc.	669 35	826 50	344 56	130 36	23 75	1,994 52
Hespeler, post office, etc.						13 79
Huntsville, post office, etc.						475 00
Ingersoll, post office, etc.	529 93	934 05	691 25	133 19	69 27	2,357 69
Kapuskasing, experimental farm			1,477 54			3,249 44
Kemptville, post office, etc.	55 72	115 20	487 20	228 36		886 48
Kenora, post office, etc.	403 66	898 43	1,043 31	310 85	113 60	2,769 85
Kingcardine, post office	46 95	249 96	444 96	160 92	18 00	920 79
Kingston, armoury (Collegiate Bldg.)						2,115 68
“ custom house	335 62	1,147 50	582 96	213 66	64 10	4,733 83

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North Bay post office, etc.	1,146 00	20 00	1,302 70	1,056 64	238 64	35 64	3,799 62
" railway mail room.	20 00	618 36					638 36
Norwich, post office, etc.	170 71		851 25	397 12	83 11	35 65	1,839 02
Orangeville, post office, etc.	16 15		1,144 25	255 75	60 98	20 00	1,497 13
Orillia, post office, etc.	94 47		840 80	918 28	193 85	29 71	2,091 96
Oshawa, examining warehouse.	68 51			303 67	9 42		381 60
" post office, etc.	1,280 36		1,017 90	498 93	173 08	93 67	3,093 94
Owen Sound, armoury.							1,154 00
" post office, etc.	1,012 93		850 28	613 85	110 35	13 47	2,600 88
Palmerston, post office, etc.	162 95		909 30	509 57	141 00		1,722 82
Paris, armoury.							88 95
" post office.	247 77		890 20	468 41	119 79	45 60	1,771 77
Parkhill, post office, etc.	65 00		205 82	783 42	131 89	20 00	1,206 13
Pembroke, post office, etc.	327 61		924 47	623 17	521 02	40 00	4,551 73
Perth, inland revenue office.		41 66					41 66
" post office.							9 84
Peterboro, custom house.	148 78		771 14	401 97	141 44	61 66	1,524 99
" post office, etc.	2,125 35		1,641 76	578 56	220 37	115 00	4,681 04
" weights and measures office.		300 00					300 00
Petrolia, post office, etc.	173 52		774 59	610 41	136 04	79 40	1,773 96
Picton, post office, etc.	100 90		866 43	506 93	155 85	28 00	1,658 11
Picton, weights and measures office.		72 00		33 00			105 00
Port Arthur, examining warehouse.	86 23	87 00	4,861 57	2,012 05	271 95	143 31	10,581 50
" Govt's share <i>re</i> local impts.							10,084 01
" immigration building.	30 30						30 30
" post office, etc.	587 42		891 57	707 15	216 28	81 71	2,484 13
Port Colborne, canal office.	155 00	180 00		35 25	28 49	1 50	400 24
" post office.	1,832 65		753 80	302 72	36 42	20 00	2,945 59
Port Hope, post office, etc.	122 42		907 69	522 60	519 90	16 84	2,089 45
Port Perry, post office, etc.	366 30		915 60	308 23	173 87	36 70	1,800 70
Powassan, armoury.	469 00						469 00
Prescott, custom house.	97 26		30 92	3 00	19 01	60 00	210 22
" immigration building.	13 25						13 25
" post office.	276 71		1,114 13	521 89	99 28	60 00	2,072 01
Preston, post office, etc.	211 65		811 75	528 34	99 66	44 53	1,695 93
Princeton, post office.	82 03	72 44					154 47
Rainy River, immigration office.	10 45						10 45
Renfrew, post office, etc.	160 60		916 80	573 06	123 90	27 00	2,128 66
Ridgetown, post office.		300 00					300 00
St. Catharines, income tax office.	633 30	800 00					1,433 30
" post office, etc.	249 00		1,319 44	756 96	106 93	161 97	2,594 30
St. Mary's, post office, etc.	1,087 28		792 00	450 47	154 87	87 44	2,572 06
St. Thomas, post office.	507 53		948 83	603 75	129 25	58 40	2,960 46
Sandwich, Post office, etc.	345 79		790 15	438 05	88 45		1,662 44
Sarnia, immigration office.	28 30						28 30
" post office, etc.	1,071 82		936 13	354 26	171 48	76 00	2,987 61
Sault Ste. Marie, immigration office.	29 15						29 15
" post office, etc.	285 84	103 81	3,178 37	1,944 00	355 91	62 58	8,667 89
Seaforth, post office.	28 30		862 15	636 36	90 65	30 00	1,647 46
Shelburne, post office, etc.	28 45		931 18	560 34	175 21	26 00	1,721 18
Simcoe, post office, etc.	170 36		993 57	339 70	101 26	20 00	1,624 89

DEPARTMENT OF PUBLIC WORKS

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
PUBLIC BUILDINGS									
(Ontario (excluding Ottawa)—Continued.)									
Smith's Falls, post office, etc.....	50 00	193 92		857 26	462 73	411 18	88 00		2,013 09
Southampton, post office site (grounds)....									50 00
Steeleton, post office..				300 00		16 48	13 50		329 98
Stratford, post office, etc.....		484 21		975 63	949 89	167 65	43 50		2,620 88
Strathroy, post office, etc.....		73 41		869 53	330 35	73 30	22 50		1,369 09
Sturgeon Falls, post office..		1 73	1,100 00			69 76			1,171 49
Sudbury, post office, etc.....	4 20	886 68		1,039 17	2,340 04	1,365 02	153 86		5,790 97
Tilbury, post office	435 83	9 90		855 40	392 38	122 36	14 00		1,829 87
Tillsonburg, post office, etc.....		56 30		816 40	569 60	114 50	35 19		1,591 99
Toronto, armoury, College St.....	3,366 00								3,366 00
" " 44 University St.....		267 38							267 38
" Asst. Receiver General's office..		13 40							13 40
" (Board of Trade Bldg.) custom house		92 21		1 25					93 46
" custom house.....		1,013 42							1,013 42
" " temporary, 52-56 Wel-									
" lington St....	1,752 77	322 93	18,000 00	308 35		1,153 40	218 86	200 38	21,965 69
" customs express office.....		86 30			2 00	35 91	5 32	8 55	138 08
" examining warehouse.....	1,385 43	23 15		342 32	1,910 77	615 26	89 64	306 56	4,673 13
" " 276 King St. W....		573 19	11,473 15	280 23	1,356 74	491 50	267 79	263 97	14,706 57
" gas and electric inspector's office...			240 00			8 25			248 25
" inland revenue bldg.....		841 12		106 57	575 70	389 92	49 02	72 84	2,035 17
" (Pacific Bldg.) (train inspection...)			872 26						872 26
" post office.....	9,184 67	6,954 91	604 14	1,153 41	6,628 33	5,800 67	796 98	752 30	31,875 41
" taxes and repairs to buildings on site									
" purchased for addition to post									
" office, but still occupied by private									
" tenants									
" postal station "A" (old G.T.R. Sta.)..	13,718 13	1,047 03	2,400 00	204 55	30 75	555 50			13,718 13
" " "A" (Union Sta.).....		3,468 55	17,000 00	7,497 85	11,095 94	12,076 17		205 53	4,443 36
" " "A" (temporary).....		8 00					618 63	2,127 02	197,838 90
" " " " " " " " " " " "		331 12		163 82	566 83	350 18	67 56	8 00	1,479 51
" " " " " " " " " " " "		580 59		99 19	543 25	467 44	83 73		1,774 20
" " " " " " " " " " " "		693 47	2,400 00	43 01	5 40	386 78	14 61		3,543 27
" " " " " " " " " " " "		339 96	38 95	102 51	1,087 25	427 04	114 10		2,109 84
" " " " " " " " " " " "		640 59		109 39	863 55	337 27	31 07		1,981 87
" " " " " " " " " " " "		57 58	1,200 00	28 65	5 50	118 93			1,410 66
" " " " " " " " " " " "		567 59	3,000 00	61 30	2 90	385 64			4,017 43
" " " " " " " " " " " "		51 55		103 99	456 72	144 96	21 60		778 82

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Toronto, postal station "L"	3,300 00	597 83	2,100 00	63 32	2 90	468 27			3,232 32
" " post office garage, Lombard St.....		830 95		173 18	680 84	484 51	241 44	286 37	3,300 00
" " St. Andrews College re taxes on local improvements	4,000 00								2,697 29
" " Generally.....	815 51	340 85		92,490 23					4,000 00
Trenton, post office, etc.....		552 33		879 75	586 80	163 91	75 00		93,646 59
Uxbridge " "		23 17		830 00	477 86	145 24			2,257 79
Walkerton " "	1,934 06	91 80		826 75	630 60	150 98	31 00		1,476 27
Walkerville " "	1,034 00	106 43		1,529 51	447 16	187 36	35 00		3,665 19
Waterloo " "		300 99		953 81	791 29	117 22	21 09		3,339 46
Welland, post office, etc.....		460 37		883 79	774 54	163 80	37 48		2,184 40
Whitby " "		65 97		887 70	397 98	81 82	38 00		2,319 98
Warton " "	136 04								1,471 47
Windsor, Engineer's office (D.P.W.).....			233 39	40 00					136 04
" " post office, etc.....	4,244 95	1,266 24		2,875 29	1,571 35	429 39	251 23		273 39
Wingham " "		216 52		387 07	479 98	166 15	31 82		10,638 45
Woodstock " "		571 83		1,218 47	586 25	128 56	39 20		1,281 54
Ontario Generally—Minor offices throughout the province.....		3,959 34		26 75		33 84			2,544 31
Totals, Ontario.....	306,055 99	95,224 50	87,512 55	237,812 85	108,906 31	47,803 39	9,817 40	5,766 72	898,899 71
Manitoba—									
Bannerman, immigration building.....		10 65	1,875 00		243 81	13 75			10 65
Brandon, examining warehouse.....					1,384 50	452 01			2,132 56
" " experimental farm.....	3,552 39	340 34		1,136 00	2,557 88	1,071 60	87 45		5,388 90
" " post office, etc.....		137 75		860 35	448 41	180 03	13 00		5,193 27
Carman, post office.....			108 00						1,639 54
Carberry, post office.....		96 70	540 00						108 00
Dauphin, income tax office.....		1,015 83		851 60	1,220 46	434 24	46 20		636 70
" " post office, etc.....		85 34	240 00		142 78				3,568 33
Emerson, immigration office.....		868 20		910 00	1,106 06	10 95	12 50		468 12
" " post office, etc.....									2,907 71
Gimli, post office, etc.....			140 00						140 00
Gretna, immigration office.....		10 65							10 65
Le Pas, lands office.....			600 00						600 00
" " post office.....		53 98	775 00		112 60				941 58
Melita, post office.....			297 00						297 00
Minnedosa, post office, etc.....		138 52		920 90	1,209 78	269 38			2,538 58
Morden, experimental farm.....	2,739 14			858 70	507 00	19 52		0 50	3,266 16
" " post office, etc.....		909 00			646 00	116 21			2,529 91
Neepawa, post office, etc.....		14 08		1,003 05	968 87	251 40	11 30		2,248 70
Portage la Prairie, armoury.....		520 46		609 50	727 38	72 00	115 10		2,044 44
" " post office.....	9,127 26	2,041 48		931 85	1,078 82	847 61	49 15		14,076 17
St. Boniface, post office.....		829 01		809 75	833 89	98 58	32 98		2,604 21
Selkirk, post office.....		69 65		1,095 35	731 60	58 27	24 56		1,979 43
Sheol Lake, post office.....			260 00						260 00
Souris, post office, etc.....		180 61		871 90	648 80	165 00	59 55		1,925 86
Sprague, immigration office.....		10 50							10 50

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
PUBLIC BUILDINGS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Manitoba—Continued</i>									
Stonewall, post office.		28 35		537 35	2 50	41 89			640 09
Transcona, post office.		1,450 48	470 00	1,003 70	808 69	117 49			470 00
Virden, post office, etc.		159 53	900 00	364 26					3,380 36
Winnipeg, ("Advocate" Bldg.,) gas and electric inspection.									1,423 79
" ("Avenue" Bldg.,) Interior Dept.									
School Lands.		43 50	648 00			0 77			692 27
" ("Boyd" Bldg.,) Archives, etc.		146 82	300 00			1 50			448 32
" (Canada Permanent Mortgage Bldg.,)									
Railway Commission.		80 11	1,450 00			5 29			1,535 40
" C.P.R. mail room.		349 40							349 40
" (Chamber of Commerce Bldg.,)									
Interior Dept.		141 14	3,300 00			42 60			3,483 74
" C.N.R., mail room.			2,416 00						2,416 00
custom house.	5,394 68	317 95	14 50	3,983 69	4,634 39	440 50	204 67	149 06	15,139 44
examining warehouse.	2,726 59	357 25	92 22	10,038 36	9,403 59	289 44	742 28	131 67	23,781 40
grain warehouse.		111 54			75 00				186 54
immigration buildings.		2,428 72	9 36		7,671 36	934 46	370 57	200 88	11,615 35
" (Lindsay Bldg.,) District Architect's Office.			356 00						356 00
" (Notre Dame Investment Bldg.,)				33 00					
D.P.W. and Inland Revenue.			2,368 09	18,081 19	12,830 79	8 23	1 25		2,410 37
post office.	6,161 10	4,372 43	276 03			2,075 21	926 04	567 46	45,290 25
postal station "A"	1,290 32	942 50		941 25	30 00	291 27	10 00	580 35	4,085 69
" " "B"	928 68	47 83	64 75	1,828 65	1,465 21	350 61	156 66	11 10	4,853 49
" " "C"		44 23	1,800 00	317 70	1 50	59 76			2,223 19
" " "D"		486 94	1,475 27	223 28	446 59	38 60	11 82	6 60	3,362 95
" " "E"	674 45	80 41							80 41
" " "F"			360 00						360 00
" (Scott Bldg.,) food control, etc.			2,040 00						2,040 00
" (Tribune Bldg.,) income tax office.		3,767 60				80 46			15,542 56
" Union Station, mail room.		129 85	11,694 50						129 85
" (Victory Bldg.,) Labour Dept.		189 65	862 50						1,052 15
" weights and measures office, 154 Alexander Ave.		1 00	974 97						975 97
" Generally.		195 26		10,848 21		3,910 24			14,953 71

Manitoba Generally—Minor offices throughout the province	1,884 23	36,707 19	59,059 59	51,938 26	373 25		
Totals, Manitoba	25,059 50				13,121 82	2,875 08	1,647 02
Saskatchewan—							
Battleford, post office, etc.	194 68		987 25	782 68	660 62	124 19	
Estevan, post office, etc.	1,919 68		900 15	468 15	241 66	22 96	
Gravelbourg, post office, etc.	351 20		209 55	387 75	157 61	10 50	
Humboldt, post office, etc.	48 65		914 14	1,434 45	493 65	110 00	
Indian Head, experimental farm				1,586 34	355 06	267 64	
“ forest nursery station	540 00			1,012 25	46 34	168 45	
Lloydminster, post office, etc.	179 74		951 55	746 02	437 65		
Maple Creek, post office, etc.	421 20		265 12	413 57	143 00	37 60	
Melfort, post office, etc.	142 07		919 20	1,319 83	353 55	109 56	
Moose Jaw (Dom. Bank bldg.), income tax office	293 55	454 85	73 85				
“ post office, etc.	1,358 69	300 00	4,734 03	3,190 66	1,146 92	218 90	552 50
“ railway mail room		445 90					
Moosomin, lands office		372 33					
North Battleford, immigration bldg.	115 00	1 00		226 61	28 72	27 45	
“ post office, etc.	101 70		1,073 43	921 95	380 36	27 45	
North Portal, immigration bldg.	213 05	1 00		177 34			
Prince Albert, immigration bldg.				143 75	23 97	17 00	
“ lands office	285 94						
“ post office, etc.	3,662 44		2,317 35	1,549 50	814 47	111 77	
Qu'Appelle, armoury	1,921 21						
Regina, armoury (St. Andrews Hall)	95 15						
“ “ (Thompson's garage)	78 91						
“ “ (Whitmore Bldg.)	64 95						
“ Asst. Receiver General's office.	342 49	18 94	1,980 73	1,603 01	448 40	71 68	196 19
“ C.P.R. mail room		352 61					51 73
“ examining warehouse	219 37		796 75	660 55	83 75	19 76	
“ immigration bldg.	250 50						
“ post office, etc.	2,547 26	64 00	4,818 49	4,398 65	2,515 11	356 07	428 03
“ postal station “A,” (C.P.R. station)	208 85	6,814 83	67 24		6 00		
“ (Westman Chambers), Inland Revenue	1,433 89	1,500 00			30 66		
Rosthern, experimental farm				883 80	2 85		
Saskatoon, (Bank of Montreal bldg.) income tax office							
“ (Canada bldg.), Inland Revenue	671 32	1,138 00					
“ C.P.R. mail room	233 74	4,984 74			93 37		
“ custom house	54 89	540 00					
“ examining warehouse		4,800 00	240 00		431 68		
“ lands office	271 04	1,800 00			11 10		
“ post office, etc.	1,756 89	3,600 00	2,613 74	2,518 60	1,260 26	128 87	26 40
“ weights and measures office		1,020 00					
Scott, experimental farm				857 54	126 90		
Sutherland, forest nursery station	89 50			914 45			
Swift Current, experimental farm				240 00			
“ lands office	371 88	2,100 00					

Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Saskatchewan—Concluded									
Swift Current, post office, etc.			2,400 00		25 00	307 34			2,707 34
West Poplar, immigration building									25 00
Weyburn, armoury	1,399 95	789 13		971 55	932 62	548 59	102 48		1,399 95
post office, etc.	2,026 25	117 42	720 00	176 00					5,390 62
Yorkton, income tax office		7 39		903 20	645 68	716 59	72 15		1,013 42
post office, etc.	1,246 20								3,591 21
Saskatchewan Generally—Minor offices through- out the Province		2,135 30				2 50			2,137 80
Totals, Saskatchewan	33,263 05	19,540 29	33,428 20	25,913 32	28,060 75	11,868 68	2,004 48	1,254 85	155,333 62
Alberta—									
Athabasca, immigration building		107 00	15 00		135 10				257 10
post office		60 00	150 00		244 16				454 16
Banff, forestry office		78 35		837 75	656 88	207 23	24 91		1,032 26
Bassano, post office, etc.		13 55					36 75		1,752 16
Calgary, armoury	1,243 70								1,243 70
Asst. Receiver (General's office)		513 88	63 00	1,303 05	666 89	255 38	10 31		2,812 51
(Blow bldg.) lands office		3,872 77	16,251 27	1,049 93		448 52	4 55		21,627 04
(Canada Life bldg.) Ry. Comm.		186 00							186 00
C.P.R. station, mail room			314 45						314 45
customs examining warehouse		3,254 38		8,643 11	5,906 00	776 48	776 49	1,704 53	24,523 43
(Dom. Bank bldg.) forestry office		170 48	2,400 00			19 00			2,589 48
(Herald bldg.) Ry. Comm.			50 00			1 12			51 12
(Hillhurst garage) irrigation office		5 50							5 50
immigration building	19,703 52	556 07	10 00	979 40	572 94	211 69	151 54	78 29	13,266 45
(Judge Travis bldg.) immigration office			105 00						105 00
(Lancaster bldg.) post office		4,170 28	31,866 06	2,591 22		2,361 53			40,989 09
(Leeson-Lincham bldg.) interior dept.		672 42	389 68						1,062 10
(Moffat bldg.) interior dept.			550 00						550 00
post office (site)	81 00								81 00
(Thomas bldg.) D.P.W.		105 20	1,745 40			22 29			1,872 89
(Travellers bldg.) seeds office			500 00			7 89		46 39	554 28
(Woodcroft bldg.) irrigation			333 50						333 50
storage, interior dept.			750 00						750 00
Coutts, immigration building	25 50	49 85	16 00						91 35

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Edmonton, C.N.R. station, mail room.....	25 00	300 00							325 00
" examining warehouse.....	32 11	4,320 00						53 76	4,438 79
" immigration building.....	1,100 17	1 00			966 22		100 94		2,305 76
" lands office.....	683 45	6,240 00		579 35					7,854 70
" (Mortlake bldg.) post office dept.....	626 40	9,300 00							10,453 28
" (Oliver bldg.) post office dept.....		30 00							30 00
" post office, etc.....	2,717 51	78 65		9,520 02	2,910 24		215 54	401 03	17,950 59
" (Teglar bldg.) forestry office.....	73 04	700 00		1,075 00			81 01		700 00
Edmonton South, post office, etc.....					787 95				2,369 86
Edson, immigration bldg.....					203 50				238 65
Grande Prairie, immigration bldg.....		36 16			152 85				189 01
" lands office.....	383 87			420 86	318 46		4 00	29 25	1,379 94
Grouard, immigration bldg.....		240 00							240 00
High Prairie, lands office.....		480 00							480 00
Lacombe, experimental farm.....	4,346 12				1,197 73				5,878 85
Lethbridge, experimental farm.....	4,313 13				2,086 80				6,507 33
" post office, etc.....	1,356 80			5,405 09	3,154 64		246 95	298 60	13,502 01
McLeod, armoury.....									588 00
" custom house.....	588 00				104 65		37 20		250 76
Medicine Hat, C.P.R. station, mail room.....	40 15	304 85		2,064 65			157 19		564 85
" post office, etc.....	260 00				400 76				3,945 73
Peace River Crossing, lands office.....	721 69				243 74				1,520 34
" immigration bldg.....	346 60	930 00			761 86				867 24
" post office.....	20 70	84 68			257 21				833 88
Pincher Creek, forestry office.....		576 67							712 00
Red Deer, alterations to old court house for post office accommodation.....	112 00	600 00							
" armoury.....									7,942 52
Red Deer, public building.....	298 50			989 95			51 25		298 50
Rocky Mountain House forestry office.....	162 10				450 00				1,696 60
Spirit River, immigration building.....	534 26	357 50			56 40				948 16
Vermilion, immigration building.....		5 00			64 50				69 50
Vermilion, public building.....		4 27							4 27
Wainwright, immigration building.....		1 00							16 14
Wetaskiwin, post office.....	294 26			856 70	393 60		155 32		1 00
Alberta Generally—Minor offices throughout the Province.....	1,659 28				7 24		12 65		2,112 40
Totals, Alberta.....	33,490 87	80,099 14	36,316 08	22,700 32	12,245 23	2,039 60	2,611,85	215,676 04	
British Columbia—									
Agassiz, experimental farm.....					668 01				5,800 49
Alberni, post office (old).....	32 64	80 00		1,710 43					80 00
Ashcroft, public building.....	118 00		1,223 05	455 40	387 80	137 00			2,321 25
Atlin, post office, etc.....	56 10		159 90		146 25				362 25
Balfour, sanitorium.....			300 00						300 00
Bamfield, public building.....									11,142 81
Bella Coola, naval air station.....		60 00							60 00
Chase, Engineer's office (D.P.W.).....	15 00	5 00			5 55	6 00			31 55
Chilliwack, post office, etc.....	1,623 10		619 36	483 43	130 93	27 00			2,883 82
Comox, post office, etc.....	1,042 35		406 72	256 06	97 94				1,803 07

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Concluded

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Salaries and Supplies for Caretakers	Heating	Lighting	Water	Power	Total
	\$	\$	\$	\$	\$	\$	\$	\$	\$
	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.	cts.
PUBLIC BUILDINGS									
British Columbia—Concluded									
Cranbrook, post office, etc.	215 44	77 25		1,154 71	836 09	341 50	71 12		2,480 67
Cumberland, post office, etc.		116 30		772 83	247 80	325 10	60 00		1,737 47
Douglas, public building					40 00	16 19			56 19
Duncan, post office, etc.		1,346 63		975 10	432 25	220 11	30 00		3,004 09
Fernie, post office, etc.		29 05		1,228 51	506 50	269 50	54 00		2,087 56
Grand Forks, post office, etc.	3,076 00			869 00	759 87	223 91	75 00		5,003 78
Greenwood, post office, etc.		32 00		740 30	498 51	215 68	72 00		1,558 49
Huntingdon, immigration building		117 45							117 45
" public building							24 00		24 00
Invermere, experimental farm	900 52	52 65	4,916 60		450 00				1,350 52
Kamloops (Acadia block), Interior Dept.			180 00						4,969 25
" forestry office			1,200 00	948 55	554 90	530 10	36 00		180 00
" (Tremont bldg.), post office	1,524 50	337 91							5,131 96
King's Gate, immigration office		48 05							48 05
Ladysmith, post office		534 90		751 27	300 00	57 70	36 00		1,679 87
Nanaimo, post office, etc.		1,206 42		1,876 84	697 27	673 70	36 00		4,490 23
Nelson, Engineer's office (D.P.W.)		116 33	748 50						864 83
" income tax office			216 00						216 00
" post office, etc.		402 20	72 00	969 12	695 70	588 16	72 00		2,799 18
New Gate, immigration office		16 30							16 30
New Westminster, Indian and fisheries bldg.		271 50		1,127 77	400 75	58 85	24 02		1,882 89
" post office, etc.		1,287 93	201 10	3,008 69	1,219 31	676 48	67 82	408 00	6,869 33
North Vancouver, post office, etc.	1,552 28	204 98		964 35	360 60	168 82	10 80		3,261 83
Osoyoos, immigration office		11 95			159 00	93 58			11 95
Pacific Highway, immigration office		170 75		16 65					439 98
Paterson, immigration office		11 85			583 45	137 10	21 93		11 85
Port Alberni, post office, etc.		812 00		892 35					2,446 83
Prince Rupert, examining warehouse			600 00						600 00
" Federal Block, post office	56 40	74 60	8,738 00	119 11		676 12	67 50		9,731 73
" fisheries office		47 44	602 50			14 10			664 04
" immigration building		1,082 50	104 84			11 95			1,199 29
" quarantine station		1 53			468 75				470 28
Revelstoke (Canadian Bank of Commerce), Interior Dept.		2 00	1,200 00						1,202 00
Rossland, post office, etc.		122 57		841 06	553 78	264 22	137 09		1,918 72
Rykerts, immigration office		11 65							11 65
Salmon Arm, Armoury		59 00						30 00	59 00
Sidney, experimental farm	3,819 32	255 85			610 00	109 17			4,824 34

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Summerland, experimental farm.....	6,180 25	117 85			312 86				153 38			6,610 96
Union Bay, post office.....		530 00		271 25	391 00				315 95			1,345 63
Vancouver, Assay office (old post office).....		1,427 19		2,904 76	1,216 88				66 65			5,931 43
" (Duncan building), Agriculture, Naval, etc.....		2,029 40	3,718 05	15 16					128 18			5,890 79
" (Empire bldg.), Marine and Fish- eries.....		3 50	630 00						7 91			641 41
" examining warehouse.....		974 11	5 35	9,484 04	2,951 90				294 35	543 00		14,408 40
" Fairmont Barracks, R.C.M.P. immigration detention bldg.....	4,007 17											4,007 17
" income tax and dredging offices.....	4,128 96			81 42	2,172 12				2,282 80	256 46		9,404 51
" mail bag depository.....		3,419 29	6,344 55						13 08			9,776 92
" Nurses Home, Willow St.....		278 00	600 00									878 00
" (Pacific bldg.), Geological survey. post office (new).....		185 00										185 00
" tractor.....		2 75	1,620 00						10 55			1,633 30
" postal station "A" (C.P.R.).....	4,653 24	5,433 35	208 20	16,533 77	3,990 50				3,816 37	359 33		35,174 76
" "B" old.....	5,722 42											5,722 42
" "B" Orange Hall.....	2,624 95	124 95	3,550 43	1 05	11 50							3,687 93
" "C".....		141 22	1,800 00	390 00	95 10				5 54			5,056 81
" "D".....		446 82	3,500 00	2,122 60	21 75				112 25			6,203 42
" (Rogers Block), fisheries inspec- tion.....		60 90		1,210 88	561 77				105 13	23 10		1,961 78
" (Rogers Block), fisheries inspec- tion.....	2,923 37	891 34	1,850 00	463 39					40 69			6,173 79
Vernon, post office, etc.....		1,520 01	3,211 65						75 84			4,807 50
Victoria (Ames-Holden building), examining warehouse.....	1,741 15	383 64		1,077 43	709 58				488 41			4,445 24
" astronomical observatory, Little Saanich Mountain.....		107 95	4,800 00	1,148 75	39 73				55 47	66 00		6,239 95
" ontomological laboratory.....	464 39	3,682 50		2,190 10	306 38				1,215 14	314 98		8,173 49
" fumigating plant, C.P.R. wharf.....	8 24											8 24
" hydro-survey.....			30 00									30 00
" immigration bldg.....			990 00									990 00
" meteorological observatory.....	3,068 91											4,763 92
" old custom house.....		554 90		1,213 20	288 10				412 74			2,296 30
" pilotage board.....		1,049 73		1,188 56	451 77				36 27			2,872 08
" post office (new).....			379 95	14,700 77	3,167 35				17 54			17 54
" " (old).....	7,446 34	2,119 53		1,049 07	141 32				1,752 57	770 32		30,456 35
" taxes due city for 1920.....	480 45	932 72							108 92			2,848 02
Waneta, immigration office.....	1,492 08											1,492 08
White Rock, immigration office.....		16 50										16 50
Williams Head quarantine station.....		131 75										131 75
British Columbia Generally—Minor offices throughout the Province.....		10,498 47			4,177 15				87 77	277 26		15,040 65
Totals, British Columbia.....	70,618 60	51,237 73	52,162 72	76,016 47	35,332 58	18,791 42	3,048 90	2,748 09	303,956 51			

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Concluded*

Public Buildings		Construction and Improvements	Repairs and Furniture	Staff and Maintenance	Total
		\$	cts.	\$	cts.
Yukon Territory					
Heating, lighting, water, etc., for all buildings in Yukon Territory				36,886 78	36,886 78
Total, Yukon Territory				36,886 78	36,886 78
Generally—					
Advertising coal tenders for Dominion buildings				1,939 60	1,939 60
Customs and Inland Revenue offices—Alterations required for their amalgamation..		17,411 15		.....	17,411 15
Flags for Dominion public buildings....		.....		4,130 60	4,130 60
Immigration offices outside of Canada		.....	70 90	.....	70 90
Post office fittings and supplies, stock stored at Toronto for distribution throughout the Province		12,458 41		.....	12,458 41
Printing, stationery, instruments, travelling, etc.		.....		21,785 52	21,785 52
Salaries of resident clerks of works, etc.			75,086 39	75,086 39
Totals, Generally.		29,869 56	70 90	102,942 11	132,882 57

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922

Name of Work	Dredging	Construction and Improvements	Repairs	Staff and Maintenance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
HARBOURS AND RIVERS					
<i>Nova Scotia—</i>					
Annapolis Royal, wharf.....			671 05		671 05
Antigonish, wharf.....			8 22		8 22
Baddeck, wharf.....			392 78		392 78
Bailey's Brook, extension to pier.....		4,571 93			4,571 93
Barachois, protection works.....			499 60		499 60
Barrington Cove, Sidney Mines, wharf.....			400 15		400 15
Bass River, new wharf.....		19,844 99			19,844 99
Bay St. Lawrence, breakwater.....			425 68		425 68
Beaver Harbour, wharf.....			145 66		145 66
Beaver River, breakwater.....			91 90		91 90
Belliveau's Cove, breakwater.....			2,215 04		2,215 04
Big Island, wharf.....			518 37		518 37
Big Pond, wharf.....			2,668 23		2,668 23
Bird Island, breakwater.....			249 75		249 75
Blanche, breakwater.....			957 81		957 81
Black Point, breakwater.....			716 08		716 08
Black Rock, breakwater.....		36 80			36 80
Bluff Head, breakwater.....			8,418 74		8,418 74
Broad Cove Marsh, wharf.....			420 58		420 58
Brooklyn, breakwater.....			60 00		60 00
Brule, wharf.....		699 55			699 55
Burke's Head, wharf.....			98 55		98 55
Burlington Centre, wharf.....			523 67		523 67
Caldwell's Cove, breakwater.....			25 00		25 00
Canning, wharf.....			1,177 95		1,177 95
Canada Creek, breakwater.....			1,954 69		1,954 69
Cape Auger, breakwater.....			347 55		347 55
Cape North, wharf (warehouse).....		299 49			299 49
Carr's Brook, breakwater.....			395 74		395 74
Centreville, wharf.....			50 03		50 03
Cheggoggin, breakwater.....			274 06		274 06
Cheticamp, wharf.....		696 56	147 29		843 85
Chimney Corner, wharf.....			659 94		659 94
Coffin's Island (Queens Co.), beach protection.....			1,307 57		1,307 57
Cow Bay (Port Morien) breakwater...			8,166 95		8,166 95
Comeau's Cove, breakwater.....			567 75		567 75
Comeauville, breakwater.....			227 53		227 53
Cripps Cove (near Lower Kingsburg), rem. of boulders.....		198 12			198 12
D'Escousse, wharf.....			79 60		79 60
Delaps Cove, breakwater.....			100 00		100 00
Digby pier, renewals.....			5,420 00		5,420 00
Diligent River, wharf.....			764 50		764 50
Drumhead, breakwater.....			617 78		617 78
Eagle Head.....	332 78				332 78
Eastern Passage.....	4,027 25				4,027 25
East Ferry, wharf.....			50 80		50 80
East River (Pictou), lock and dam....				825 00	825 00
East Sheet Harbour, wharf.....			920 29		920 29
East Ship Harbour, wharf.....			204 71		204 71
Ecum Secum, wharf.....			583 65		583 65
Englishtown, wharf.....			800 05		800 05
Fourchu, wharf.....		2,199 12			2,199 12
Fox Island, wharf.....			9 60		9 60
Fox Point, breakwater.....		50 00			50 00
Gabarous, breakwater.....			267 75		267 75
Glace Bay, harbour improvements...	10,242 47				10,242 47
Grand Etang, pier.....			799 91		799 91
Grand Narrows, wharf.....			741 69		741 69
Granville Centre, wharf.....			365 12		365 12
Hall's Harbour, wharf.....			1,166 36		1,166 36
Halifax Graving Dock.....		4,574 00	231 96		4,805 96
" Lawlor's Island, quar. station wharf.....		15,932 45			15,932 45

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construction and Improvements	Repairs	Staff and Maintenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Nova Scotia—Continued</i>					
Hampton (Annapolis Co.), wharf.....			299 80		299 80
Herring Cove, wharf.....			594 95		594 95
Ingonish Ferry, wharf.....			1,344 41		1,344 41
Inverness, harbour improvements.....	2,032 65	182 96			2,215 61
Iona, wharf (new).....			1,117 66		1,117 66
Iona, wharf (old).....			700 32		700 32
Irish Cove, wharf.....			49 12		49 12
Kelly's Cove, breakwater.....			99 64		99 64
Ketch Harbour, breakwater.....			441 32		441 32
Kingsport, wharf.....			277 10		277 10
Kraut Point, wharf.....			972 22		972 22
Little Anse, breakwater.....			494 69		494 69
Little Bass River, breakwater.....			399 75		399 75
Little Bras d'Or.....	7,281 64				7,281 64
Little Brook, breakwater.....			604 91		604 91
Little Narrows, wharf.....			120 57		120 57
Little River, wharf.....			100 25		100 25
Liverpool, channel.....	52,322 09				52,322 09
Long Cove, breakwater.....			1,283 37		1,283 37
Louis Head, breakwater.....			1,189 49		1,189 49
Lower L'Ardoise, breakwater.....			1,000 15		1,000 15
Lower West Pubnico, breakwater.....			1,002 70		1,002 70
Mabou Harbour, protection works.....			132 82		132 82
Maitland Ferry, wharf.....		1,099 48			1,099 48
Malagash, wharf extension.....		1,342 55			1,342 55
Malignant Cove, wharf.....		150 00	1,911 70		2,061 70
Margaree Island, wharf.....			376 56		376 56
Margaree Harbour, wharf.....			47 12		47 12
Margaretville, breakwater.....			392 29		392 29
McKay's Point, breakwater.....			570 93		570 93
McNair's Cove, wharf.....			796 59		796 59
Matthews Lake, beach protection.....			29 57		29 57
Meat Cove, breakwater.....			194 50		194 50
Melford, wharf.....			730 35		730 35
Meteghan, breakwater.....			400 00		400 00
Mill Creek (King's Co.), wharf.....			198 93		198 93
Morden (King's Co.), breakwater.....			497 02		497 02
Mulgrave, wharf approach.....			278 22		278 22
Necum Teuch, wharf.....			256 23		256 23
New Campbellton, wharf..			3,762 33		3,762 33
New Glasgow, wharf.....		1,031 20			1,031 20
Newport Landing, wharf.....			1,318 29		1,318 29
Noel, wharf.....			2,915 73		2,915 73
North East Harbour, wharf.....			635 64		635 64
North River, wharf.....			100 97		100 97
North Sydney, wharf.....			150 00		150 00
Nyanza, wharf.....			1,399 92		1,399 92
Parker's Cove, breakwater.....			1,096 95		1,096 95
Parrsboro, wharf.....			1,044 21		1,044 21
Peggy's Cove, breakwater.....			300 16		300 16
Petite Rivière (Lunenburg Co.) breakwater.....			2,005 23		2,005 23
Petpeswick Harbour, wharf.....			658 43		658 43
Pictou Island, wharf..			554 12		554 12
Pinkney's Point, wharf.....			507 02		507 02
Pleasant Bay (Inverness Co.), wharf..			499 78		499 78
Port Dufferin, wharf.....			1,008 42		1,008 42
Porter's Lake, canal.....			344 00		344 00
Port George (Annapolis Co.) breakwater.....			99 15		99 15
Port Hawkesbury, wharf.....			1,199 89		1,199 89
Port Hood, wharf.....		3,699 96	359 62		4,059 58
Port Maitland, breakwater.....			719 66		719 66
Port Wade, wharf.....			149 50		149 50
Poulamond, wharf.....			855 11		855 11

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construction and Improvements	Repairs	Staff and Maintenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Nova Scotia—Continued</i>					
Prospect, wharf.....		2,313 18			2,313 18
Pugwash, wharf.....			65 44		65 44
Ray's Creek, wharf.....			1,284 00		1,284 00
Ross' Ferry, wharf.....			298 87		298 87
St. Peters Narrows.....	11,396 04				11,396 04
Salmon River (Yarmouth-Clare) breakwater.....			2,992 64		2,992 64
Sanford, breakwater.....			3,279 52		3,279 52
Sandy Cove, breakwater.....			6,902 53		6,902 53
Scotch Cove (White Pt.) breakwater.....		9,888 90			9,888 90
Seaforth, breakwater.....		7,100 00			7,100 00
Shelburne, wharf.....			687 00		687 00
Shenacadie, wharf.....	10,277 42	1,160 00			11,437 42
Skinner's Cove, wharf.....			961 45		961 45
Smith's Cove (Port Hood Isld.) breakwater.....		1,403 05			1,403 05
Sober Island, wharf extension.....		455 50			455 50
Soldier's Cove, wharf.....		2,699 05			2,699 05
South Cove (Victoria Co.) wharf.....			99 83		99 83
South Gut (Victoria Co.) wharf.....			699 77		699 77
South Side (Cape Sable Isld.) beach protection.....			561 39		561 39
Spry Bay, wharf.....			530 07		530 07
Sugar Loaf (Cape North) wharf.....			399 97		399 97
Summerville, wharf.....			6,995 00		6,995 00
Sydney Harbour.....	10,557 07	219 35	37 50		10,813 92
Tangier, wharf.....			894 92		894 92
Tatamagouche, wharf.....			149 06		149 06
Three Fathom Harbour, breakwater.....			9,160 96		9,160 96
Toney's River, wharf.....			1,238 94		1,238 94
Trenton (East River), wharf.....			200 00		200 00
Trout Cove, breakwater.....			4,088 74		4,088 74
Turner's Island, wharf.....			348 45		348 45
Victoria, wharf (Cape Breton).....			74 97		74 97
Walton (Hants Co.) breakwater.....			391 09		391 09
Watt Settlement, wharf.....			1,843 05		1,843 05
Wedge Point, wharf.....		499 50			499 50
Wedgeport, wharf.....			153 03		153 03
West Arichat, breakwater.....			2,845 64		2,845 64
West Arichat, wharf.....			1,409 41		1,409 41
West Chezzetcook, breakwater.....			15,161 03		15,161 03
Western Head, breakwater.....			1,500 00		1,500 00
West Pubnico, wharf.....			296 98		296 98
Whycocomagh, wharf.....			3,969 14		3,969 14
Windsor.....	2,235 89				2,235 89
Yarmouth Hr., improvements.....	55,336 19				55,336 19
" Bar, improvements.....	11,360 41	3,541 75			14,902 16
Generally.....	308 73			1,439 50	1,748 23
Totals, Nova Scotia.....	177,710 63	85,889 44	158,017 45	2,264 50	423,882 02
<i>Prince Edward Island—</i>					
Annandale, pier.....			917 71		917 71
Bay Fortune, wharf.....		1,645 23			1,645 23
Bay View, wharf.....			142 35		142 35
Belfast, wharf.....			1,761 50		1,761 50
Belle River Harbour, breakwater.....			1,314 41		1,314 41
Cardigan, wharf.....			119 42		119 42
Chapel Point, pier.....			532 42		532 42
Charlottetown Harbour.....	24,494 91				24,494 91
China Point, wharf.....			789 29		789 29
Georgetown, wharf.....			811 05		811 05
Grand River, wharf (North).....			59 00		59 00
Haggerty's wharf.....		946 21			946 21
Hurd's Point, wharf.....			45 35		45 35

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
HARBOURS AND RIVERS					
<i>Prince Edward Island—Continued</i>					
Murray Harbour, pier			22 77		22 77
Murray River	10,207 98				10,207 98
Naufrage Harbour, breakwater			769 37		769 37
North Lake boat harbour		14,997 84			14,997 84
Pownal, wharf			1,460 64		1,460 64
Port Selkirk, wharf			1,106 56		1,106 56
Red Point, wharf			133 53		133 53
Rustico, breakwater			2,249 65		2,249 65
Tracadie, breakwater			225 74		225 74
Vernon River, wharf			2,417 10		2,417 10
Victoria, pier	8,443 58		1,862 70		10,306 28
Wood Island South breakwater			96 50		96 50
Generally				553 55	553 55
Totals, Prince Edward Island.....	43,146 47	17,589 28	16,837 06	553 55	78,126 36
<i>New Brunswick—</i>					
Back Bay, wharf			44 96		44 96
Barker's (Sunbury Co.) wharf			68 93		68 93
Bathurst Hr., improvements	40,584 97				40,584 97
Bayswater (Kings Co.) ferry wharf...			112 32		112 32
Burnt Church, wharf			78 63		78 63
Burton Court House, wharf			200 13		200 13
Campbellton	68,781 08				68,781 08
Campbellton, wharf			763 46		763 46
Cape Bald, breakwater pier			6,266 19		6,266 19
Caraquet, wharf			24 00		24 00
Chance Harbour, breakwater...			100 00		100 00
Chatham, wharf			495 59		495 59
Chocolate Cove, float		1,095 40			1,095 40
Cocagne, wharf			18 00		18 00
Cole's Point, breakwater			158 92		158 92
Cumming's Cove (Charlotte Co.) wharf			276 37		276 37
Dalhousie, deep water wharf			700 23		700 23
Douglstown (Miramichi River)	3,829 22				3,829 22
Gagetown, wharf			204 51		204 51
Gautreau Village, wharf			234 45		234 45
Gooseberry Cove, wharf			7 06		7 06
Grand Anse, breakwater	2,308 92		65 95		2,374 87
Gunter's, wharf			153 13		153 13
Hatfield Point	1,812 12				1,812 12
Iron Bound Cove, wharf			302 63		302 63
Kennebecasis Island, ferry wharf			43 78		43 78
Kouchibouguac, breakwater			504 13		504 13
Leonardville, wharf			46 95		46 95
Loggieville, wharf			25 20		25 20
Lori's Cove, wharf		12,960 21			12,960 21
Lower Jemseg, wharf			133 73		133 73
Maugerville, wharf			124 77		124 77
Mather's Island, wharf			88 00		88 00
Millidgeville, ferry wharf			115 60		115 60
Mills Point, wharf			543 77		543 77
Miramichi River	43,976 45				43,976 45
Miscou, wharf			130 58		130 58
Moncton, wharf			575 44		575 44
Moulie's River, wharf			294 39		294 39
Neguac, wharf			21 00		21 00
Newcastle, wharf	2,745 48		67 57		2,813 05
Nelson, Burchill's wharf	1,878 49				1,878 49
North Head (Grand Manan Isld.) breakwater wharf			1,783 86		1,783 86
Oromocto, wharf			49 51		49 51
Petit Rocher, breakwater			96 91		96 91

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construction and Improvements	Repairs	Staff and Maintenance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
HARBOURS AND RIVERS					
<i>New Brunswick—Continued</i>					
Quaco (St. Martin's) breakwater reconstruction.....		24,590 13			24,590 13
Renforth, wharf.....		2,975 38			2,975 38
Rexton, wharf.....			551 33		551 33
Richibucto Cape, completion of pier and breakwater.....		1,008 66			1,008 66
River St. Louis (lower) wharf.....			63 95		63 95
St. Andrews, wharf.....			7,503 79		7,503 79
St. John, harbour improvements—					
Courtenay Bay.....		1,184,098 70			1,184,098 70
Dry Dock subsidy.....				82,608 56	82,608 56
Negro Point, breakwater.....				742 00	742 00
Sand Point.....	13,122 03				13,122 03
St. John West, piers, sheds, etc.....	2,051 87	24,902 20	38,157 72		65,111 79
St. Louis, wharf.....			162 54		162 54
Scotchtown, wharf.....			41 11		41 11
Seal Cove, breakwater.....			200 50		200 50
Shippigan Gully, breakwater.....			279 82		279 82
Stonehaven, wharf.....		1,199 64			1,199 64
Summerville (Kings Co.) ferry wharf.....			131 00		131 00
Tabucintac, wharf.....			22 61		22 61
The Range, wharf.....			132 83		132 83
Two Rivers, wharf.....			335 54		335 54
Upper Derby, wharf.....			19 98		19 98
Wilson's beach, breakwater wharf.....			1,560 97		1,560 97
Woodland's wharf.....			247 60		247 60
Woodward's Cove, Grand Manan, wharf.....			100 00		100 00
Generally.....	639 53			1,886 00	2,525 53
Totals, New Brunswick.....	181,730 16	1,252,830 32	64,431 94	85,236 56	1,584,228 98
<i>Quebec—</i>					
Amherst (Pointe Shea) Magdalen I lds., wharf.....			4,965 48		4,965 48
Anse à Beaufils, wharf.....			213 81		213 81
Anse à l'Eau (Tadoussac), wharf.....			1 056 68		1,056 68
Anse aux Gascons, wharf.....		23,065 65			23,065 65
Anse aux Griffons, rem. of boulders.....		48 50			48 50
Anse St. Jean, wharf.....		1,865 59			1,865 59
Ayer's Cliff, wharf.....			98 46		98 46
Aylmer, wharf.....			1,799 71		1,799 71
Baie des Rochers, wharf.....			190 84		190 84
Baie Richard (Nominigues) wharf.....			93 37		93 37
Batiscan, wharf.....	19,668 54		10 00		19,678 54
Beloeil, protection piers.....			11,817 67	150 00	11,967 67
Beloeil Station, wharf.....			383 56		383 56
Berthierville, wharf.....			218 13	18 00	236 13
Bic, old wharf.....			74 13		74 13
Brewer's Landing (Labelle) wharf.....			31 50		31 50
Buckingham (Labelle), wharf.....			11 50		11 50
Cabano, wharf.....			89 90		89 90
Cacouna, wharf.....			1,362 86		1,362 86
Cap à l'Aigle, wharf.....			224 40		224 40
Cape Cove (Anse du Cap), wharf.....			3,042 89		3,042 89
Cap Santé, wharf.....			5,243 40		5,243 40
Carillon.....	235 19				235 19
Champlain, wharf.....			190 59		190 59
Chandler, wharf.....			199 00		199 00
Charlemagne.....	18 00				18 00
Chicoutimi Basin, wharf.....	235 25		857 67		1,092 92
Chicoutimi, wharf.....			3,377 99	566 07	3,944 06
Church Cove (St. Joachim), removal of boulders.....		244 57			244 57
Contrecoeur, wharf approach.....	265 78		4,367 63	39 00	4,672 41

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Quebec — Continued.</i>					
Cote Ste. Catherine, wharf.....			173 49		173 49
Coteau Landing, wharf..			71 67		71 67
Crane Island (Ile aux Grues), wharf..			54 38		54 38
Cross Point, wharf.....			3,093 25		3,093 25
Descente des Femmes, wharf.....			45 00		45 00
Deschambault, wharf.....			1,261 70		1,261 70
Desjardins, wharf.....			155 03		155 03
Dorval.....	87 83				87 83
Doucet's Landing.....	5,056 61				5,056 61
Douglastown, breakwater.....			299 04		299 04
East Templeton, wharf.....			585 13		585 13
Echourie, rem. of boulders.....		247 57			247 57
Fabre, wharf.....			569 60		569 60
Father Point, wharf.....			3,580 06		3,580 06
Fort William (Riv. Ottawa) wharf....			198 95		198 95
Fox River (Riv. aux Renards) wharf..			314 42		314 42
Gaspe, deep water wharf.....		4,573 22			4,573 22
Gatineau Point, wharf.....			180 50		180 50
Glen Almond (Riv. du Lievre) wharf..			32 80		32 80
Graham, wharf.....	110 05				110 05
Grande Entree, Magdalen Islds., wharf			179 81		179 81
Grands Méchins, wharf.....			1,340 36		1,340 36
Grande Riviere (Gaspe) pier....			5,503 53		5,503 53
Grindstone, Magdalen Islds., break- water.....			234 14		234 14
Grondines, wharf.....			53 82		53 82
Grosse Ile, Quar. sta. East wharf.....			1,738 13		1,738 13
Grosse Ile, Quar. sta. West wharf.....		6,799 48	4,236 57		11,036 05
Harricanaw Riv.....	14,981 58				14,981 58
Harrington, wharf.....			371 80		371 80
High Falls (Riv. du Lievre) wharf....			130 14		130 14
Honfleur, wharf.....			178 78		178 78
House Harbour (Havre aux Maisons) Magdalen Islds. wharf.....			564 55		564 55
Hudson, wharf.....			27 44		27 44
Hull, wharf.....			249 15		249 15
Hurteau, wharf. (Lake Nominiguc).			105 55		105 55
Ile aux Coudres, wharf.....			374 99		374 99
Ile Perrot (South) wharf..			1,188 50		1,188 50
Ile Verte (N.D. des Sept Douleurs) W. wharf.....		157 40			157 40
Kamouraska, wharf.....			2,464 55		2,464 55
Knowlton Landing, wharf.....			471 38		471 38
Lacolle, wharf.....			91 00		91 00
Lanoraie, wharf.....			37 55		37 55
Laprairie, protection works.....		395 40			395 40
Lauzon "Champlain" dry dock..		352,173 94		37,506 68	389,680 62
Lauzon "Lorne" dry dock.....				30,048 55	30,048 55
Lavaltrie, wharf.....			2,099 78	20 05	2,119 83
Les Eboulements, wharf.....			174 97		174 97
Lotbiniere, wharf.....			405 43		405 43
Louiseville.....	8,643 11				8,643 11
Magog, wharf.....			286 10		286 10
Masson, wharf.....			90 50		90 50
Mistassini, wharf.....			899 54		899 54
Mistook, wharf.....			243 33		243 33
Montmagny, wharf.....			42 25		42 25
Murray Bay (La Malbaie) wharf.....			1,143 77		1,143 77
New Carlisle, wharf.....	6,845 16		209 35		7,054 51
Newport, wharf.....			199 87		199 87
New Richmond, wharf.....			2,454 88		2,454 88
Nicolet, wharf (upstream).....			241 92		241 92
North Hatley, wharf.....			175 50		175 50
North Timiskaming, wharf.....		7,551 02			7,551 02
Norway Bay (Ottawa Riv.) wharf....			168 00		168 00

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construction and Improvements	Repairs	Staff and Maintenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Quebec—Continued.</i>					
Notre Dame de la Salette, wharf...			28 50		28 50
Notre Dame des Quinze, wharf.....			275 40		275 40
Papineauville, wharf...			285 07		285 07
Paspebiac East, wharf...		3,440 04			3,440 04
Perce, wharf.....			923 99		923 99
Peribonca, wharf.....			319 24		319 24
Petite Riviere St. Francois (Charlevoix)					
Rem. of boulders.....		497 74			497 74
Pierreville, wharf.....			564 21		564 21
Piopolis, wharf.....			22 40		22 40
Pointe à Elie (Magdalen Islds.) breakwater.....			921 05		921 05
Pointe à Pizeau (Sillery) wharf.....			663 90		663 90
Pointe aux Trembles (Neuveville) wharf.			2,888 74		2,888 74
Pointe Fortune, wharf.....	140 63		800 82		941 45
Pointe Madeleine, wharf.....				750 00	750 00
Point Piche (Timiskaming) wharf...			3,929 74		3,929 74
Port au Persil.....	348 14				348 14
Port Daniel, wharf.....			4,071 64		4,071 64
Quebec Harbour (Riv. St. Charles)...		1,068 52			1,068 52
Quyong, wharf.....			1,496 80		1,496 80
Repentigny, wharf.....			12 50		12 50
Rigaud, wharf.....	149 40		171 91		321 31
Rimouski, Harbour improvements....	73,996 55	19,139 09		209 93	93,345 57
Rimouski River, breakwater.....			103 16		103 16
Riviere aux Vases (Terres Rompues), wharf.....			246 02		246 02
Riviere Batiscan, landing pier.....			1,088 27		1,088 27
Riviere Beaudette.....	96 40				96 40
Riviere des Vases (Temiscouata) wharf			75 00		75 00
Riviere du Lievre, lock and dam.....	24 00	8,865 60		2,690 79	11,580 39
Riv. du Loup (en bas) wharf.....			4,008 50		4,008 50
Riviere Ouelle, wharf.....			1,299 62		1,299 62
Riviere St. Maurice.....	4,891 40				4,891 40
Riviere Saguenay.....	16 14				16 14
Roberval, wharf.....			57 60		57 60
Ruisseau à la Loutre, wharf.....			2,269 85		2,269 85
Ruisseau Leblanc, wharf.....			50 98		50 98
Ste. Adelaide de Pabos, wharf.....			195 77		195 77
St. Alphonse de Bagotville, wharf.....			2,438 34		2,438 34
St. André de Kamouraska, wharf.....			43 20		43 20
St. Andrews, wharf. (Argenteuil).....	689 15		753 89		1,443 04
Ste. Anne de Beaupré, wharf.....			274 76		274 76
Ste. Anne de Chicoutimi, wharf.....			1,987 01		1,987 01
Ste. Anne des Monts, wharf.....			22 83		22 83
Ste. Antoine de Richelieu (Verchères) wharf.....			819 44		819 44
St. Charles de Caplan, wharf.....			700 00		700 00
Ste. Emélie (Leclercville) wharf.....			9 65		9 65
Ste. Famille (Ile d'Orleans) wharf.....		4,901 35	354 20		5,255 55
St. Francois du Lac, wharf.....			77 00		77 00
St. Francois (Ile d'Orleans) wharf Nth. side.....			162 30		162 30
St. Francois (Ile d'Orleans) wharf Sth. side.....			6,177 00		6,177 00
St. George de Malbaie (Chien Blanc) breakwater.....		140 19			140 19
St. Godfroy, wharf.....			2,314 09		2,314 09
St. Ignace de Loyola, wharf.....			2,393 34		2,393 34
St. Irenée les Bains, wharf.....			483 45		483 45
St. Jean Deschaillons, wharf.....			109 19		109 19
St. Jean (Ile d'Orleans)-wharf.....			467 35		467 35
Ste. Jeanne d'Arc (Lake St. John) landing.....		200 46			200 46
St. Jean Port Joli, wharf.....			2,488 25		2,488 25

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Quebec—Continued.</i>					
St. Jerome (Lake St. John) wharf.....			780 74		780 74
St. Johns, guide piers....				65 35	65 35
St. Laurent (Ile d'Orleans) wharf..			1,053 83		1,053 83
Ste. Luce, wharf.....			98 14		98 14
St. Mathias, wharf.....			1,699 76		1,699 76
St. Methode (Tikouabe) wharf.....			356 62		356 62
St. Michel de Bellechasse, wharf.....			1,116 05		1,116 05
St. Nicholas, wharf.....			4,301 18		4,301 18
St. Ours (Riv. Richelieu) wharf.....	47 75		1,923 79		1,971 54
St. Paul (Ile aux Noix) wharf....			298 95		298 95
St. Roch des Aulnaies, wharf.....			1,199 61		1,199 61
St. Roch de Richelieu, wharf.....				122 53	122 53
St. Simeon, wharf.....			647 69		647 69
St. Sulpice, wharf.....	44 06		143 00		187 06
Ste. Victoire, wharf.....			289 71		289 71
St. Zotique, wharf.....			1,995 83		1,995 83
Sabrevois, wharf.....			897 90		897 90
Sorel, wharf.....		920 86	2,013 07		2,933 93
Squateck, wharf.....			1,054 98		1,054 98
Three Rivers, coal wharf.....			1,406 37		1,406 37
Thurso, wharf.....			1,646 72		1,646 72
Vaudreuil, wharf.....			499 10		499 10
Vercheres, wharf.....			134 40	139 69	274 09
Verdun, wharf.....	1,990 95		967 73		2,958 68
Ville Marie, wharf.....			527 83		527 83
Yamaska, wharf.....			510 15		510 15
Yamaska, lock and dam.....				1,129 85	1,129 85
Generally...	7,305 99			23,036 73	30,342 72
Totals, Quebec.....	145,967 66	436,296 19	153,322 24	96,493 22	832,079 31
<i>Ontario</i>					
Allandale, wharf.....			262 64		262 64
Arnprior, wharf.....			165 02		165 02
Armitage Landing, wharf.....			99 13		99 13
Bare Point, breakwater (See Port Arthur).....					
Barrie, wharf.....			1,344 03		1,344 03
Bayfield, pier.....			4,607 75		4,607 75
Baysville, wharf.....			195 57		195 57
Beaumaris, wharf.....			66 63		66 63
Belle Ewart, wharf.....			98 10		98 10
Belleville.....	21,291 73				21,291 73
Bracebridge, wharf.....			293 95		293 95
Bruce Mines, wharf.....			586 32		586 32
Burleigh Falls, stop log and dam.....			129 76	101 25	231 01
Byng Inlet.....	905 29				905 29
Cape Croker, pier.....			351 00		351 00
Chatham.....	4,666 88				4,666 88
Chenal Ecarté.....	748 23				748 23
Chute à Blondeau, wharf.....			204 29		204 29
Cobourg, piers &c.....		11,342 53	474 20		11,816 73
Coldwater, wharf.....			237 04		237 04
Collingwood, breakwater reconstruc- tion...	26 35	22,523 40			22,549 75
Collingwood graving dock No. 1 (subsidy).....				15,000 00	15,000 00
Collingwood graving dock No. 2 (subsidy).....				9,208 96	9,208 96
Collins Bay.....	214 95				214 95
Craigie Lea, wharf.....			81 20		81 20
Cumberland, wharf.....			361 49		361 49
Depot Harbour, wharf.....			18,612 60		18,612 60
Doe Lake, wharf.....			146 30		146 30

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Work	Dredging	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Ontario—Continued.</i>					
Dyer's Bay, wharf.....			1,343 64		1,343 64
Fltzroy Harbour, wharf.....			79 65		79 65
Fort William, harbour improvements..		33,546 87			33,546 87
French River, dams.....			3,301 92		3,301 92
Gargantua Harbour, wharf..			1,506 51		1,506 51
Goderich, docks.....	18,505 18		6,539 40		25,044 58
Grand Bend piers.....			1,056 95		1,056 95
Gravenhurst, wharf.....			352 50		352 50
Haileybury, dockyard.....				465 94	465 94
“ wharf.....			396 95		396 95
Hamilton.....	3,682 56				3,682 56
Hawkestone, wharf.....			65 50		65 50
Holland River, wharf approach.....			150 00		150 00
Jeannette's Creek, wharf ..	6,091 94		202 06		6,294 00
Kenora, wharf.....			375 92		375 92
Kincardine, pier ..			1,570 80		1,570 80
“ piling.....			1,668 51		1,668 51
Kingston, harbour improvements.....	12,569 40	3,510 00			16,079 40
“ Maintenance and operation of combined roadway, wharf and bridges...				15,240 69	15,240 69
Kingsville, piers ..	10,173 78		11,083 85		21,257 63
Leamington, pier....	1,380 05		8,332 28		9,712 33
Little Current, rebuilding wharf.....		28,140 89			28,140 89
L'Orignal, wharf.....			710 24		710 24
MacLarens' Landing, wharf....		7,877 73			7,877 73
Magnetawan, wharf.....			490 36		490 36
Midland, wharf.....	314 00		2,001 37		2,315 37
Milford Bay, wharf.....			1,595 48		1,595 48
Minaki, wharf.....			8 00		8 00
Monetville.....	310 35				310 35
Montreal River (Latchford) dam.....				2,539 40	2,539 40
New Liskeard, wharf.....			400 22		400 22
Nipissing, wharf.....			261 77		261 77
North Bay, wharf.....		9,926 80			9,926 80
Oakville, pier...	272 50		1,971 48		2,243 98
Oshawa, wharf.....			968 13		968 13
Owen Sound, wharf.....		52,765 48	12,987 72		65,753 20
Parry Sound, wharf.....		17,236 82			17,236 82
Pelee Island, piers.....			3,447 91		3,447 91
Pembroke, wharf.....		14,071 70			14,071 70
Penetanguishene, wharf.....			1,159 95		1,159 95
Petewawa, wharf.....		3,529 73			3,529 73
Point Edward.....	1,875 87				1,875 87
Port Arthur, dry dock (subsidy).....				37,741 50	37,741 50
“ (Bare Pt.) breakwater..		83,186 23			83,186 23
Port Burwell, pier.....	48,447 00		1,539 98		49,986 98
“ Radio Telegraph Station		7,240 51			7,240 51
Port Colborne, breakwaters.....			54,576 43		54,576 43
Port Dover, piers.....	3,795 73		10,968 68		14,764 41
Port Maitland.....	93 45				93 45
Port McNicoll (See Victoria Hr.)....					
Port Rowan, pier.....			499 98		499 98
Port Stanley, harbour works.....	14,990 50		11,444 19		26,434 69
Port Sydney, wharf.....			49 15		49 15
Providence Bay, wharf.....			1,994 77		1,994 77
Richard's Landing, wharf.....			65 28		65 28
River Thames.....	1,168 80				1,168 80
Roaches Point, wharf.....			378 99		378 99
Rondeau Harbour, improvements.....		25,116 31			25,116 31
St. Joseph Island, wharf.....			1,121 70		1,121 70
St. Williams, wharf.....			388 75		388 75
Sand Point (Riv. Ottawa) wharf.....			99 85		99 85
Sault Ste. Marie, wharf.....	24,607 63		1,231 90		25,839 53
Severn Falls, wharf.....		373 97			373 97

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Work	Dredging	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Ontario—Continued</i>					
Severn Bridge, wharf.			263 60		263 60
Shanty Bay, wharf.			42 97		42 97
Sheguindah, wharf.		73 12			73 12
Silver Centre, wharf.			430 77		430 77
Sparrow Lake, wharf.		2,277 05			2,277 05
Stokes Bay, wharf.			100 85		100 85
Sturgeon Falls, wharf.		6,383 97			6,383 97
Sydenham River.	1,406 75				1,406 75
Thessalon, wharf.		11,624 59	494 20		12,118 79
Tobermory, glance booms.				210 22	210 22
Toronto, harbour improvements:—					
Roger Miller Contract.		813,599 61			813,599 61
Eastern Channel east pier.		66,121 22			66,121 22
Western Channel.				196 67	196 67
Toronto Island, breakwater protection.		133,658 00			133,658 00
Treadwell, wharf.			384 79		384 79
Victoria Hr. (Port McNicoll) wharf (warehouse).	1,843 25		124 25		1,967 50
Wendover, wharf.			416 37		416 37
Wheatley, pier.			1,946 97		1,946 97
Whitby, piers.		619 49			619 49
Windermere, wharf.			198 15		198 15
Windsor, dock.			231 40	1,770 00	2,001 40
Generally.	7,306 00			10,512 92	17,818 92
Totals, Ontario.	186,688 17	1,354,746 02	181,340 06	92,987 55	1,815,761 80
<i>Manitoba—</i>					
Big George Island.	17,172 59				17,172 59
Big Island (Hecla) wharf.		693 80			693 80
Dauphin River, wharf.		304 35			304 35
Delta, protection works.		2,484 09			2,484 09
Hole River, removal of obstructions.		3,014 00			3,014 00
Lake Winnipegosis.	171 00				171 00
Le Pas, wharf.	13,309 75	7,063 36			20,373 11
Little Pembina River, dam.			1,854 76		1,854 76
Red River, channel protection.			8,298 78		8,298 78
" mouth.	12,408 00				12,408 00
St. Andrews Rapids, lock and dam.				21,469 56	21,469 56
Selkirk, slough.	2,425 54				2,425 54
" wharf and slip.	969 99			4,716 72	5,625 71
Wanipigow River, removal of obstruc- tions.		1,466 74			1,466 74
Generally.				2,411 91	2,411 91
Totals, Manitoba.	46,396 87	15,026 34	10,153 54	28,597 19	100,173 94
<i>Saskatchewan and Alberta—</i>					
Fort McMurray, wharfage accommo- dation.		2,002 96			2,002 96
Generally.				295 84	295 84
Totals, Saskatchewan and Alberta.		2,002 96		295 84	2,298 80
<i>British Columbia—</i>					
Ainsworth, fender boom.		1,145 38			1,145 38
" wharf.		1,742 34			1,742 34
Albion, wharf.			960 46		960 46
Alert Bay, float.		771 04			771 04
Alice Arm, wharf.		14,432 37			14,432 37
Anderson Lake, cribway.		474 56			474 56
Bamfield, wharf, etc.			56 10		56 10

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>British Columbia—Continued</i>					
Barnston Island, wharf.....			404 54		404 54
Beaton, wharf.....			22 52		22 52
Bella Bella, wharf.....			182 24		182 24
Bindley's Landing, float.....			105 15		105 15
Bold Point, float.....			105 47		105 47
Boswell, floating wharf.....		8,668 78			8,668 78
Burnaby (Queens Ave.), wharf.....		1,411 72			1,411 72
Burton, new dolphins.....		454 57			454 57
Campbell River, wharf.....			7,546 92		7,546 92
Camp Island, wharf.....			119 59		119 59
Capilano, training dams.....			901 13		901 13
Carroll's Landing, wharf.....		7,675 14			7,675 14
Chemainus Landing, float.....			85 85		85 85
Chilliwack, wharf (shed).....		681 12			681 12
Church House, wharf.....			8 94		8 94
Clayoquot, float.....			242 64		242 64
“ wharf.....			350 00		350 00
Columbia River, below Burton, ma- trassing.....			1,154 03		1,154 03
Comox, wharf.....			292 55		292 55
Coquitlam River.....		1,749 72			1,749 72
Courtenay River.....	424 90				424 90
Courtenay, wharf.....		2,061 85			2,061 85
Cowichan Bay, wharf.....		8,391 99			8,391 99
Crescent Bay, wharf.....			120 60		120 60
Deep Cove, wharf.....			168 00		168 00
Deer Park, wharf.....			763 50		763 50
Degnans Bay, wharf.....			338 00		338 00
Digby Island, wharf.....			37 60		37 60
Donley's Landing, float.....			63 33		63 33
Eagle Cliff, float.....			397 81		397 81
East Arrow Park, wharf.....		92 88			92 88
Edgewood, wharf.....			316 15		316 15
English Bay, wharf.....		2,500 00			2,500 00
Esquimalt.....	5,552 94				5,552 94
“ new dry dock.....		1,266,184 89			1,266,184 89
“ old dry dock.....				21,882 90	21,882 90
Ewing's Landing, float.....			987 04		987 04
Fraser's Wharf.....			80 45		80 45
Fraser River Improvements—					
Annieville Bar, groynes.....			2 06		2 06
Nicomen, McDonald Bar.....	31,217 86				31,217 86
North Arm.....	25,245 08				25,245 08
Sandheads.....	8,990 43				8,990 43
Snagboat <i>Samson</i>				28,562 15	28,562 15
Steveston Jetty.....	26,799 95	8,320 52			35,120 47
Woodward Slough.....	61,518 05				61,518 05
Fulford Harbour, wharf.....			98 80		98 80
Ganges Harbour, wharf.....		8,104 57			8,104 57
Gibson Landing, wharf.....			156 87		156 87
Gower Point, float.....			635 19		635 19
Grace Harbour, float.....			105 48		105 48
Graham, wharf.....		2,695 16			2,695 16
Granite Bay, wharf.....			21 27		21 27
Grey's Creek, wharf.....			498 32		498 32
Halcyon, wharf.....			118 75		118 75
Harrop, wharf.....			124 24		124 24
Hatzic.....	5,672 40				5,672 40
Heriot Bay, float.....			441 57		441 57
Holberg, wharf approach.....		1,799 70			1,799 70
Hope Bay (Pender Island), wharf.....			3,618 15		3,618 15
Hornby Island, wharf.....			745 25		745 25
Ioco (Sunnyside), wharf.....		7,266 72			7,266 72
Irvings Landing, float.....			29 12		29 12
Johnson's Landing, wharf.....			267 11		267 11

AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—Continued

Name of Work	Dredging	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
British Columbia—Continued					
Kaslo, wharf.....			2,956 04		2,956 04
Killiney, wharf.....			2,547 13		2,547 13
Kincolith, wharf.....			8,353 26		8,353 26
Kokanee, wharf.....			488 60		488 60
Kootenay Bay, wharf.....			65 28		65 28
Kootenay Landing.....	15,983 62				15,983 62
Kuskanook, wharf.....		5,311 59			5,311 59
Ladysmith, wharf.....		9,918 36			9,918 36
Lang Bay, wharf.....			2,240 45		2,240 45
Lloyd Point, float.....			68 00		68 00
Lockport, wharf.....			100 00		100 00
Long Bay, float.....			214 81		214 81
Long Beach, wharf.....			97 88		97 88
Lyall Harbour, wharf.....			128 00		128 00
Maples Bay, wharf.....			2,219 28		2,219 28
Mary Island, wharf.....			375 00		375 00
Manson's Landing, wharf.....		5,207 35			5,207 35
McDonald's Landing, wharf.....			205 91		205 91
Minto Landing, slipway.....		33 77			33 77
Mirror Lake, wharf.....			1,927 73		1,927 73
Mission, wharf.....			968 85		968 85
Nahun, wharf.....			265 00		265 00
Nakusp, wharf.....			177 82		177 82
Nanaimo, wharf.....			2,076 52		2,076 52
Needles, wharf.....			1,182 29		1,182 29
New Massett, wharf.....			796 15		796 15
New Massett, to settle claims due to collapse of wharf.....		1,639 83			1,639 83
New Westminster.....	3,644 44				3,644 44
North Gabriola Island, wharf.....			1,632 38		1,632 38
Okanagan, control dam.....			1,858 76		1,858 76
Okanagan Mission, wharf.....			262 35		262 35
Peachland, wharf.....			1,766 14		1,766 14
Pitt Lake.....	3,977 20				3,977 20
Port Alberni, wharf.....			354 00		354 00
Port Clements, wharf.....			768 00		768 00
Port Haney, wharf.....			29 67		29 67
Port Hardy, wharf.....			619 55		619 55
Port Washington, wharf.....			2,481 49		2,481 49
Powell River, addition to wharf.....		1,682 26			1,682 26
Prince Rupert quar. station, wharf.....			184 00		184 00
Princess Creek, floating wharf.....		1,740 00			1,740 00
Proctor, floating wharf.....	188 45	1,489 00			1,677 45
Quathiaski Cove, wharf.....			2,161 87		2,161 87
Queens Bay, wharf.....			75 12		75 12
Renata, wharf.....			11 00		11 00
Retreat Cove, wharf.....			2,369 51		2,369 51
Robert's Bay, float.....			802 94		802 94
Roy, float.....			317 00		317 00
Royston, wharf.....			969 99		969 99
Salmon Arm (Cariboo Dist.) wharf.....			557 78		557 78
Salmon Arm (Sayward Dist.) wharf...			1,404 64		1,404 64
Sandspit Point, wharf reconstruction...		8,575 77			8,575 77
Saturna Island, wharf.....			65 13		65 13
Savary Island, wharf.....		267 76			267 76
Seaford, float.....			1,190 25		1,190 25
Sherwood, float.....			87 88		87 88
Shoal Bay, float.....		402 50			402 50
Sicamous, wharf extension.....		2,130 74			2,130 74
Skeena River.....	11,604 80				11,604 80
Skidegate, wharf.....			1,639 46		1,639 46
Snug Cove, float.....		1,127 66			1,127 66
Sointula, wharf.....			1,197 00		1,197 00
Sooke, wharf.....			2,559 42		2,559 42
Sorrento, wharf.....		2,670 07			2,670 07

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Dredging	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
HARBOURS AND RIVERS	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>British Columbia—Concluded.</i>					
South Gabriola Island, wharf.....		1,672 42			1,672 42
South Pender Island, wharf.....			2,296 41		2,296 41
Squamish, wharf.....	447 75		1,178 48		1,626 23
Squirrel Cove, float.....		838 64			838 64
Stag Bay, float.....			14 54		14 54
Stapelby, float.....			97 07		97 07
Stewart, wharf.....		1,842 10			1,842 10
Stickine Riv., rem. of obstructions..		50 00			50 00
Summerland, wharf.....			58 05		58 05
Sumas.....	3,734 75				3,734 75
Sunshine Bay, wharf (Shed).....			71 30		71 30
Surge Narrows, float.....			107 70		107 70
Syringa Creek, wharf.....			299 18		299 18
Thetis Island, wharf.....		985 09			985 09
Tofino, wharf.....			4,588 87		4,588 87
Trepanier, wharf.....			154 45		154 45
Tucker Bay (Lasqueti Isld.) wharf...			498 94		498 94
Ucluelet, wharf.....			68 27		68 27
Union Bay, wharf.....			125 00		125 00
Upper Pitt Lake, wharf.....		3,934 16	318 20		4,252 36
Vancouver, First Narrows.....	930 09				930 09
Velvelet, wharf.....			106 82		106 82
Victoria harbour, improvements.....	94,288 23	350 50			94,338 73
West Arrow Park, wharf.....			110 80		110 80
White Rock, wharf.....			123 06		123 06
William's Head, quar. station, wharf...			1,231 05	209 46	1,440 51
" " coal wharf			958 88		958 88
" " dolphins		790 00	2,424 00		3,214 00
William's Landing, float.....			108 35		108 35
Wyatt Bay, float....			84 40		84 40
Generally.....	5,761 97			10,935 40	16,697 37
Totals, British Columbia.....	305,982 91	1,399,284 59	90,515 94	61,589 91	1,857,373 35
<i>Yukon Territory—</i>					
Stewart River, Improvements.....		5,843 78			5,843 78
Total, Yukon Territory.....		5,843 78			5,843 78
<i>Harbours and Rivers Generally—</i>					
General expenses of Staff, etc.....				12,816 38	12,816 38
Salaries of district engineers, assist- ants, etc.....				507,790 22	507,790 22
Test borings for sundry projected works.....		9,404 72			9,404 72
Totals, generally.....		9,404 72		520,606 60	530,011 32

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Amounts expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Continued*

Name of Work	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
DREDGING PLANT				
Maritime Provinces.....		76,924 41		76,924 41
Ontario and Quebec.....		26,970 11		26,970 11
Manitoba, Saskatchewan and Alberta.....	3,465 18	3,005 33		6,530 51
British Columbia.....		13,534 50		13,534 50
Totals, Dredging Plant.....	3,465 18	110,494 35		121,959 53
ROADS AND BRIDGES				
<i>Maritime Provinces—</i>				
Grand Etang bridge, N.S.....		99 84		99 84
St. Leonard, N.B., International bridge....	1,958 93			1,958 93
Edmundston International bridge.....	145,852 56			145,852 56
<i>Quebec and Ontario—</i>				
Burlington Channel, new bridge.....	262,220 16			262,220 16
Ottawa city, bridges and streets maintained by Government—				
Connaught Place and Wellington St.....			2,226 03	2,226 03
New Chaudiere bridge.....	3,313 34	3,435 11		6,748 45
Lighting all above.....			2,273 41	2,273 41
York bridge (Grand River).....		5,083 12		5,083 12
<i>Manitoba, Saskatchewan, Alberta and British Columbia—</i>				
Banff bridge (Anthracite Bridge).....		16 20		16 20
" new bridge.....	157,604 02			157,604 02
Capilano bridge.....	10,687 13			10,687 13
Edmonton bridge.....	138 66			138 66
Netley Cut bridge, Man.....		522 90		522 90
Shellmouth bridge.....		761 29		761 29
Totals, Roads and Bridges.....	581,774 80	9,918 46	4,499 44	596,192 70
TELEGRAPH AND TELEPHONE LINES				
Cape Ray—Newfoundland.....			500 00	500 00
<i>Maritime Provinces—</i>				
Bay of Fundy lines.....			4,743 36	4,743 36
Cape Breton lines.....	648 00		47,702 63	48,350 63
Chatham-Escuminac line.....			2,155 56	2,155 56
Pictou Island, cable.....	8,942 50			8,942 50
Prince Edward Island and mainland cable....			14,032 58	14,032 58
<i>Quebec Mainland—</i>				
Dorchester County lines.....			303 93	303 93
North Shore, east of Bersimis.....			37,573 85	37,573 85
" west of Bersimis.....			21,656 85	21,656 85
Quebec County lines.....		1,800 00	3,334 50	5,134 50
Timiskaming lines.....			5,627 10	5,627 10
<i>Quebec Islands—</i>				
Anticosti System.....			11,802 55	11,802 55
Cable ship <i>Tyrian</i>			65,224 40	65,224 40
Grosse Isle, Isle aux Coudres and Island of Orleans system.....		171 00	8,065 58	8,236 58
Magdalen Islands system.....			10,291 03	10,291 03
Maritime Provinces and Gulf generally.....			9,502 73	9,502 73
<i>Ontario—</i>				
Pelce Island system.....			2,933 22	2,933 22
<i>Saskatchewan and Alberta—</i>				
Saskatchewan system..			72,476 99	72,476 99
Alberta system.....	10 80		112,504 44	112,515 24

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AMOUNTS expended by the Department of Public Works of Canada during the fiscal year ended March 31, 1922—*Concluded*

Name of Work	Construc- tion and Improve- ments	Repairs	Staff and Main- tenance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.
TELEGRAPH AND TELEPHONE LINES				
<i>British Columbia and Yukon—</i>				
Ashcroft-Dawson system.....	20,637 25		264,319 29	284,956 54
British Columbia mainland system.....	21,635 61	20,996 89	106,883 97	149,516 47
British Columbia-Vancouver Isld. system.....	1,932 95		144,120 72	146,053 67
Telegraph Service, generally.....			1,585 83	1,585 83
Totals, Telegraph and Telephone Lines...	53,807 11	22,967 89	947,341 11	1,024,116 11
MISCELLANEOUS				
<i>Surveys—</i>				
Maritime Provinces.....			24,432 45	
Quebec.....			24,250 64	
Ontario.....			31,062 38	
Manitoba.....			6,474 21	
Saskatchewan and Alberta.....			3,145 26	
British Columbia.....			19,680 87	
Generally.....			758 91	109,804 72
<i>Upper Ottawa Storage dams—</i>				
Land damages.....	23,293 89			23,293 89
Quinze dam.....			19,448 64	19,448 64
Timiskaming dam.....			14,413 41	14,413 41
Generally.....			56,393 21	56,393 21
<i>Accounts Branch—</i>				
Salaries and travelling expenses of agents, clerks, etc., of outside service.....			21,734 08	21,734 08
Gratuities to widows or representatives of 45 deceased employees under Civil Service Amend- ment Act (Sec. 30).....			8,829 47	8,829 47
Memorial to the late Lt.-Col. H. Baker, M.P.....	1,500 00			1,500 00
Operation and maintenance of inspection boats.....			15,329 92	15,329 92
River gaugings and metering.....			11,902 04	11,902 04
Collection of Public Works Revenues.....			4,007 95	4,007 95
Public Service Retirement Act—Gratuities to retiring employees.....			37,029 12	37,029 12
Cost of living bonus.....			410,318 24	410,318 24
Increase in salaries due to app. of reclassification of C.S. (Vote 529).....			31,692 94	31,692 94
Totals, Miscellaneous.....	24,793 89		740,903 74	765,697 63

DEPARTMENT OF PUBLIC WORKS

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EXPENDITURES by the Department of Public Works of Canada from Demobilization—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Heating	Lighting	Water	Power	Staff and Mainten- ance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Ottawa Buildings</i>									
Board of Pension Comm. (Federal Bldg.)			618 55						618 55
" " (Transportation Bldg.)		825 00							825 00
Historic Records Comm., cor. Sparks and Kent sts.			4,450 00						4,450 00
M. and D., Daly Bldg., Records office		9,000 00							9,000 00
" " (Garage, Cor. Duke and Queen sts)			2,658 09			59 25			2,717 34
" " (O.A.A.C. Bldg.), 5th P.L.D.G., Artillery brigade			8,231 65	381 92					8,613 57
Sir Sanford Fleming Home	3,000 00		1,379 89			51 15			4,431 04
War Trophies Bldg., Sussex st.	80 00			26 17					106 17
Generally									
<i>Ontario (excluding Ottawa)</i>									
Bowmanville, M. and D., King st., No. 1 Co.			195 00						195 00
Durham Regt.									
Brantford, M. and D. (Schultz Bldg.), 32nd Bat-tery Gun Room			3,965 00						3,965 00
" " 29 Gilkinson st.			99 74						99 74
" " S.C.R., Cor. King and Dalhousie sts.			330 12						330 12
Brighton Town Hall, "B" Co., Northumberland Regt.			60 00						60 00
Burlington, Brant House, military hospital	9,371 10								9,371 10
Campbellford, M. and D. (Irwin Block)			120 00						120 00
Chatham, "E" Battery, 2nd Machine Gun Bri-gade			720 00						720 00
Collingwood, M. and D. (Town Hall)		51 00	120 00						171 00
Cornwall, M. and D.			390 00						390 00
Dunville, M. and D.			94 67						94 67
Fort William, S.S.B. (Cuthbertson Block)			84 00						84 00
Fort William, M. and D. (Murphy Bldg.)			900 00						900 00
Goderich (Colborne Hotel, Hamilton st.), M. and D.			360 00						360 00
Green's Creek, Air Board	18 55								18 55
Guelph, S.C.R. (Herald Bldg.)			600 00						600 00

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Hamilton, (Royal Market Bldg.), Board of Pension Comm.					1,525 00					1,525 00
" S.C.R., 92 McNab st.					500 00					500 00
Huntsville, M. and D., Main st., No. 1 Co., Pioneers					175 00					175 00
Ingersoll, M. and D. (Bank of Montreal Bldg.), Signal Corps					63 00					63 00
Ingersoll, M. and D., old Church Bldg. on Drill Hall site				100 00						100 00
Kenora, M. and D., Armoury					1,000 00					1,000 00
Kingston, M. and D., Queens military hospital					492 00					492 00
" Ordnance depot (Cement Bldg.)										2,816 36
" Mowat sanatorium				4,004 87						4,004 87
" S.C.R., garage, cor. Brock and Mont-real sts.										105 00
" " (Golden Lion Block)				10 00						1,370 00
" " (Kingston Hosiery Co's. Bldg.)										1,050 00
" " (old Collegiate Bldg.)				200 00						1,200 00
" " vocational br. (Merchants Bank Bldg.)										189 59
" Sydenham, "Ongwanda" isolation hospital										6,518 52
London, S.C.R., 81 King st.				140 00						560 00
" Board of Pension Comm., 184-190 Horton st.										3,900 00
" " Shops, 562 Talbot st.										760 00
" Westminster military hospital										71,124 74
Newmarket, Military Hospital										25,000 00
Owen Sound, M. & D., 31st Grey Regt.									2 50	515 83
Perth, M. & D.										93 75
Peterboro S.C.R. (Barrie Bldg.) Vocational Br										580 83
Pontypool (Durham Co) M. & D., Hillside Ave., 3rd Dragoons										260 00
Powasson, M. and D., King St.										70 00
St. Catharines, S.C.R., 46 Queen St., Vocational Br.										15 00
St. Marys M. & D., Water St.										422 50
St. Marys, M. and D.										275 00
Sarnia, M. and D., old waterworks Bldg., Sarnia Battery										1,085 00
Sault Ste. Marie, M. and D., 849 Queen St. W.										40 00
Smith's Falls, M. and D., 19 Main St.										151 25
Toronto, Board of Pension Comm., (Crown Life Bldg.)										3,690 00
Toronto, Casualty clearing station										5,832 30
Toronto, Central Military hospital, (old Bishop Strachan school)										8,451 69
Toronto, Euclid Hall, Military Hospital				222 00					77 57	222 00

EXPENDITURES by the Department of Public Works of Canada from Demobilization—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Heating	Lighting	Water	Power	Staff and Mainten- ance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Ontario—(Continued)									
Toronto, M. and D., Cor. Dundas and Pacific W. 36th Peel Regt.....			990 00						990 00
Toronto, M. and D., Ordnance stores, 174 Spadina Ave.....			6,260 87	616 00	25 65		6 28		6,908 80
Toronto, M. and D., Demobilization office, 287 Queen St. W.....			2,100 00						2,100 00
Toronto, M. and D., 69-71 King St. W.....			1,950 00						1,950 00
Toronto, M. and D., 48 University Ave., Ser- geants Mess, Queens Own Rifles.....			600 00						600 00
Toronto, M. and D., old Technical School.....			150 00						150 00
Toronto, Military District No. 2 Headquarters, (Cawthra House, 211 College St.).....			6,500 00						6,500 00
Toronto, Orthopaedic hospital.....	10,938 96								10,938 96
Toronto, S.C.R., dental clinic, Orthopaedic Bdg., 184 Spadina Ave.....		41 38		535 31					576 69
Toronto, S.C.R., (Henry Bdg., Cor. Richmond and Duncan Sts).....			3,917 31						3,917 31
Toronto, S.C.R., Mechanical transport, Dupont St. garage.....		50 00	5,530 65						5,580 65
Toronto, S.C.R., Nurses' Home, 141 Isabella St.			125 00						125 00
Toronto, S.C.R., Stores Br., Cor. Pearl and Simcoe Sts.....		630 28	2,802 70		60 55	38 67	3 93		3,536 13
Toronto, S.C.R., Vocational Br., 592 King St.....			5,350 00						5,350 00
Toronto North, Orthopaedic Hospital (Davis- ville).....	32,343 92		4,926 81						37,270 7
Trenton, armoury, Hastings and Prince Edward Regt.....			450 00						450 00
Windsor, S.C.R., 76 Pitt St. E.....		10 00				1 59			14 59
Windsor, S.C.R., Vocational Br., 24 London St. E.....		4 92	1,400 00						1,404 92
Manitoba.									
Morden, M. and D., armoury, cor. Railway and 8th sts.....		8 80	400 00						408 80
Souris, M. and D., B. Squadron, 1st Manitoba Rifles.....		46 00							46 00

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Victoria Beach, Air Station.....	13 00						13 00
Winnipeg, Armoury and drill hall, 220 Hampton St.....					600 00		600 00
Winnipeg, "Deer Lodge" military hospital.....					2,200 00		2,200 00
Winnipeg, S.C.R., (Bon Accord Bldg.), Western medical stores.....					1,680 00		1,680 00
Winnipeg, S.C.R., (Board of Trade Bldg.) Information Service.....					120 00		120 00
Winnipeg, S.C.R., (Keewaydon Bldg.).....					2,315 00		2,315 00
Winnipeg, S.C.R., Mechanical Transport garage, 297 Burwell St.....					518 00		518 00
Winnipeg, S.C.R., (Notre Dame Investment Bldg).....					16,558 50		16,558 50
Winnipeg, S.S.Board, (Enderton Bldg.).....		1,924 91			5,215 00		7,139 91
Winnipeg, "Tuxedo" military hospital.....	18,876 00						18,876 00
<i>Saskatchewan.</i>							
Kerrobert, M. and D.....					375 00		375 00
Kindersley, Headquarters 18th Can. Light Horse					600 00		600 00
Moose Jaw, military hospital (Ross Park).....	1,138 89						1,138 89
Prince Albert, (Harphill Bldg.,) S.S.B.....		811 31			3,450 00		4,261 31
Qu'Appelle, M. and D., 10th Artillery Brigade....					200 00		200 00
Regina, M. and D., Armoury, (St. Andrew Hall)					2,400 00		2,400 00
Regina, " " Demobilization Br., (Sherwood Bldg.).....	411 94						411 94
Regina, M. and D., garage, 14th Ave. and Albert St.....					710 00		710 00
Regina, M. and D., military district No. 12.....					5,800 00		5,800 00
" " " " stables					270 00		270 00
" " " " Ordnance corps, ammunition hut.....					120 00		120 00
Regina, M. and D., Ordnance corps, (Exhibition Bldg).....					782 15		782 15
Regina, M. and D., Ordnance stores, cor. Dewdney and Ottawa Sts.....					1,950 00		1,950 00
Regina, M. and D., Ordnance stores, 8th Ave. & Ottawa St.....					2,139 96		2,139 96
Regina, M. and D., Ordnance depot on lots Nos. 21-24.....					7,800 00		7,800 00
Regina, M. and D., (Red Triangle Hut).....					1,219 30		1,219 30
" " " " S.S.Board (Westman Chambers.).....		929 34			5,570 00		6,499 34
Regina, M. and D., S. C.R., (G.W.V.A. Bldg., Albert and 11th Ave.).....					5,208 00		5,208 00
Rosetown, M. and D., 18th Can. Light Horse					375 00		375 00
Saltcoats, M. and D.....					135 00		135 00
Saskatoon, M. and D., armoury, (old Knox church).....					1,200 00		1,200 00

EXPENDITURES by the Department of Public Works of Canada from Demobilization—Continued

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Heating	Lighting	Water	Power	Staff and Mainten- ance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
Saskatchewan—Continued									
Saskatoon, M. and D., Headquarters, 12th C.M.G. Brigade			2,212 90						2,212 90
Saskatoon, M. and D., S.S. Board (Canada Life Bldg.)		87 15	2,038 80						2,125 95
Saskatoon, S.S. Board, (Connaught Block)		1,397 65	5,708 86						7,106 51
Swift Current, M. and D., armoury			698 00						698 00
Weyburn, M. and D., armoury, 5th St.			500 00			5 70			505 70
Alberta									
Banff, M. and D., 4th Field Troop, C.E., 307 Banff Ave.			660 00						660 00
Calgary, M. and D., 938 15th Ave.			60 00						60 00
" " garage, 330 5th Ave. W.			775 00						775 00
" " auto. storage and space.			305 00						305 00
" " Ordnance stores, 10th Ave. and 7th St. W.			5,800 00						5,800 00
" " Headquarters, Military Dist. No. 13.			1,350 00	138 48					1,491 43
" " car repairs and storage, 711 12th Ave.		2 95	105 00						105 00
Calgary S.C.R. and S.S. Board (Lancaster Bldg.)			8,466 78						8,466 78
" " Col. Belcher hospital (Can. Fairbanks Bldg.)			10,800 00						10,800 00
" " Mechanical Transport Br. 525 A, 22nd Ave. W.			440 00						440 00
" " Nurses' Home, 1417 7th Ave. N.W.		32 25	530 00						562 25
" " Occupational Therapy, 515 6th Ave. W.			500 00						500 00
" " (Southern Chambers) S. S. Board, etc.			9,099 95		322 64				11,791 72
" " (Sunnyside Hospital)	2,586 09	2,369 13	3,000 00						5,586 09
" " workshops, etc., 606 and 608 2nd St. E.			1,717 50						1,717 50
Edmonton S.C.R., Orthopaedic shop			440 00						440 00

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Edmonton S.C.R. and S.S.B. (McLeod Bldg.)	1,006 39	4,075 00			5,081 39
" S.S. Board (Williamson Block, Jasper Ave.)	883 61	16,099 93			16,983 54
Edmonton South (Stratheona) military hospital.		18,185 46			18,185 46
Lethbridge, Headquarters, artillery and infantry units, 6th Ave. and 6th St.		2,250 00			2,250 00
MacLeod M. & D. (American Hotel Bldg.) 93rd Battery		375 00			375 00
Medicine Hat, M. and D. (Quebec Bank Bldg.)		1,875 00			1,875 00
1st Bat. Alberta Regt.		450 00			450 00
Red Deer, M. and D. (Empress Theatre) 78th Battery, C.F.A.					
British Columbia					
Balfour S.C.R. (Kootenay Lake Hotel)		7,188 38			7,188 38
Courtenay Townsite, "G" Battery, 11th M.G. Brigade		300 00			300 00
Cran rook, M. and D. (Hanson Block)		65 00	10 00		75 00
Esquimalt, Work Point, Barracks	20,279 00				20,279 00
Nanaimo (Roller Rink) "H" Battery, 11th M. G. Brigade		600 00			600 00
Point Grey, Shaughnessey Mil. Hospital	4,982 00				4,982 00
Prince Rupert, M. and D. Armoury, 121-2nd Ave.	200 00	1,200 00			1,400 00
Vancouver, M. and D., (Fee Block, 570 Granville St.) (Rooms)		300 00			300 00
" " Military Huts (Recreation grounds, Gamble St.)		600 00			600 00
" " (Riggs & Selman Bldg.)		950 00			950 00
" " 317-321 Pender St.)					
" " Headquarters Armoury					
" " 72nd Regt., 1255 Pender St. W.		1,500 00	1 65		1,501 65
" " 1117 Seaton St., 72nd Highlanders		1,850 00	5 30		1,855 30
" " Ordnance stores, 1178-1198 Hamilton St.		3,500 00			3,500 00
" " Ordnance storage, 1152 Mainland St.		40 00			40 00
" " Stables, cor. George and Gilford Sts.	100 00	3,500 00	8 40		3,608 40
Vancouver S.C.R. (Board of Trade Bldg.)	134 56	2,655 00			2,789 56
" " (Old Thomson Block) Vocational Br.		1,500 00			1,500 00
" " class room and Vocational Br., 1155 Pender St. W.		2,393 74	1 30		2,435 28
" " and S.S. Board (Duncan Bldg.)	40 24	10,384 65			10,384 65
" " Functional training (Arlington Bldg.) 316 Cordova St. W.		200 00			200 00

EXPENDITURES by the Department of Public Works of Canada from Demobilization—Concluded

Name of Building	Construc- tion and Improve- ments	Repairs and Furniture	Rents	Heating	Lighting	Water	Power	Staff and Mainten- ance	Total
	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
British Columbia—Continued									
Vancouver S.C.R. Orthopaedic and surgical appli- ance Br., 780 Beatty St.....			1,275 00						1,275 00
" " Limb fitting Dept. old "News Advertiser" Bldg.....			1,200 00						1,200 00
" " Mechanical Transport Br., rear of 1155 Pender St. W.....		50 00	125 00						125 00
" " Nurses' Home, 4325 Willow St. (Rogers Bldg.) S.S. Board....		2,055 52	2,714 45						170 00
Vernon, S.S. Board (McGraw Bldg.).....		601 37	1,500 00	778 99					4,769 97
Victoria, M. and D., married members' quarters									2,880 36
" " 509-515 Gore St.....		110 18	540 00			8 75			658 93
" " married members' quarters, 204 Wilson St.....			420 00			1 25			421 25
Victoria S.C.R. and S.S. Board (Central Bldg.).		190 00	3,900 00		53 07				4,090 00
" " (Campbell Bldg.) dental clinic		110 79	2,021 45						2,185 31
" " mechanical transport, corner Cornwall St.....			104 00						104 00
" " garage, 1017 Rockland Ave.....		400 00	80 00						80 00
" " Orthopaedic Br., 913 Douglas St.			400 00						800 00
" " Vocational Br., 851-853 Fisguard St.....			900 00						901 00
" " Vocational Br., dental clinic, 1406 Douglas St.....			375 00						375 00
Sundry military buildings generally.			450 00						450 00
Taxation offices generally....	187 05	6 35						14,500 75	14,687 80
Grand Total.....	341,377 03	39,392 48	398,010 32	3,078 91	1,636 62	312 70	218 13	14,500 75	798,526 94

Recapitulation		Dredging.	Construction and Improvements	Repairs	Staff and Maintenance	Total
		\$ cts.	\$ cts.	\$ cts.	\$ cts.	\$ cts.
<i>Totals Public Buildings—</i>						
Nova Scotia.....			100,805 84	32,278 29	100,022 80	233,106 93
Prince Edward Island.....			4,609 33	4,433 44	17,949 13	26,991 90
New Brunswick.....			113,180 00	26,198 23	114,451 23	253,829 46
Quebec.....			162,244 97	76,457 86	557,589 14	796,291 97
Ottawa.....			1,403,055 10	302,207 11	2,413,100 93	4,118,363 14
Ontario (excluding Ottawa)..			306,055 99	95,224 50	497,619 22	898,899 71
Manitoba.....			32,594 61	25,059 50	165,348 96	223,003 07
Saskatchewan.....			33,263 05	19,540 29	102,530 28	155,333 62
Alberta.....			33,490 87	26,142 95	156,042 22	215,676 04
British Columbia.....			70,618 60	51,237 73	188,100 18	309,956 51
Yukon.....					36,886 78	36,886 78
Public Buildings, Generally..			29,869 56	70 90	102,942 11	132,882 57
<i>Totals, Harbours and Rivers—</i>						
Nova Scotia.....		177,710 63	85,889 44	158,017 45	2,264 50	423,882 02
Prince Edward Island.....		43,146 47	17,589 28	16,837 06	553 55	78,126 36
New Brunswick.....		181,730 16	1,252,830 32	64,431 94	85,236 56	1,584,228 98
Quebec.....		145,967 66	436,296 19	153,322 24	96,493 22	832,079 31
Ontario.....		186,688 17	1,354,746 02	181,340 06	92,987 55	1,815,761 80
Manitoba.....		46,396 87	15,026 34	10,153 54	28,597 19	100,173 94
Saskatchewan and Alberta...			2,002 96		295 84	2,298 80
British Columbia.....		305,982 91	1,399,284 59	90,515 94	61,589 91	1,857,373 35
Yukon.....			5,843 78			5,843 78
Harbours and Rivers, Generally....			9,404 72		520,606 60	530,011 32
<i>Totals—</i>						
Dredging plant.....			3,465 18	120,494 35		123,959 53
Roads and bridges.....			581,774 80	9,918 46	4,499 44	596,192 70
Telegraph and telephone lines.....			53,807 11	22,967 89	947,341 11	1,024,116 11
Miscellaneous.....			24,793 89		740,903 74	765,697 63
Demobilization.....			341,377 03	39,392 48	417,757 43	798,526 94
Grand totals of expenditures.....		1,087,622 87	7,873,919 57	1,526,242 21	7,451,709 62	17,939,494 27

CONTRACTS, DEEDS AND LEASES

Law Branch, P.W.D.

STATEMENT No. 1 Contracts let by the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.

Works	Names of Contractors	Date of Contract	Amount
PUBLIC BUILDINGS			
Nova Scotia			
Amherst . . . Drill Hall	N. & M. Deskallino	Nov. 24, 1921	6,695 00
Annapolis Royal	G. B. Hardwick	July 6, 1921	935 00
Bridgewater.	Geo. W. Thomson.	Mar. 18, 1922	356 00
Lawlor's Island	Farquhar Bros.	Dec. 6, 1921	2,010 00
"	D. A. Cummings & Co.	Dec. 16, 1921	2,593 00
"	"	Dec. 16, 1921	3,650 00
"	The Trask Artesian Well Co., Ltd.	Jan. 5, 1922	9 00 p. foot—depth not less than 150 feet — but to any depth directed by Department. 900 00 390 00
"	Mitchell & McRae.	Mar. 28, 1922	
North Sydney. . . Post office	John C. McMillan	Feb. 11, 1922	
New Brunswick			
Moncton	Harold M. Price	Aug. 18, 1921	3,781 00
Partridge Island Quarantine Station	J. S. Parker & J. E. Kane	Sept. 21, 1921	82,950 00
"	W. A. Munro.	Oct. 18, 1921	1,265 00
"	D. A. Cummings & Co.	Jan. 11, 1922	2,605 00

St. John.....	Custom House.....	Hydraulic hoist.....	J. H. Doody.....	Oct. 1, 1921	900 00
".....	Post office, stores and taxation office.....	Alterations, etc., to fittings.....	John A. Adams.....	Nov. 30, 1921	1,256 00
St. Stephen.....	Public building.....	New hot water heating furnace.....	Jas. H. McPartland & Sons.....	Aug. 20, 1921	1,375 00
Quebec					
Bedford.....	Post office.....	Supply and installation of fittings.....	The J. T. Schell Company.....	July 29, 1921	642 75
Granby.....	Public building.....	".....	".....	May 17, 1921	3,977 00
Grosse Isle.....	Assistant superintendent's residence.....	Heating apparatus.....	Jobin & Paquet.....	Oct. 29, 1921	2,498 00
Montreal.....	Examining warehouse.....	Installation of hydraulic ash hoist.....	The Turnbull Elevator Co., Ltd.....	Oct. 4, 1921	2,585 00
".....	General post office.....	Steam boilers and alterations connected therewith.....	W. G. Edge, Limited.....	Oct. 26, 1921	24,592 00
Quebec (Louise Embankment).....	Immigration building.....	Iron grills and fencing at.....	Canadian Welding Works, Ltd.....	Oct. 3, 1921	4,200 00
Riviere du Loup.....	Post office.....	Alterations to fittings.....	Jos. Charest.....	Nov. 12, 1921	300 00
Ste. Anne de Bellevue.....	Military hospital.....	Alterations, etc., to.....	Quinlan, Robertson & Janin, Ltd.....	Sept. 9, 1921	8,990 00
Ontario					
Barrie.....	Post office.....	Hydraulic hoist.....	The Turnbull Elevator Co., Ltd.....	Dec. 1, 1921	1,497 00
Burlington.....	Brant House.....	Alterations to heating systems.....	W. H. Miles & Co.....	Nov. 23, 1921	2,680 00
Kingston.....	R.M.C. Educational Block.....	Laboratory and interior fittings.....	McKelvey Birch, Ltd.....	April 22, 1921	20,257 00
".....	".....	Grading, paving, roads, etc., in connection with.....	T. S. Scott.....	Sept. 13, 1921	21,400 00
".....	".....	Grading, paving, roads, etc., in connection with riding school.....	R. J. McClelland.....	Nov. 17, 1921	2,250 00
Kitchener.....	Customs and Inland Revenue Department.....	Alterations in the offices.....	The Globe Furniture Co.....	Oct. 11, 1921	1,265 00
Leamington.....	Post office.....	Alterations and additions to fittings.....	John A. Ed. Burrows.....	Jan. 30, 1922	850 00
Lindsay.....	".....	Alterations and additions to fittings.....	J. T. Schell Co.....	Aug. 22, 1921	3,404 00
London.....	Westminster Psychopathic hospital.....	Alterations to steam heating apparatus.....	W. G. Edge, Ltd.....	June 13, 1921	12,863 00
".....	".....	Fixing up and grading grounds.....	Webster Construction Co., Ltd.....	Aug. 9, 1921	8,000 00 and unit prices for additions and deductions which may be made in contract.
".....	".....	Alterations and repairs to switchboard.....	Taylor-Campbell Electric Company.....	Nov. 12, 1921	2,275 00
Ottawa.....	Experimental farm.....	Heating and plumbing.....	Erskine Smith & Company.....	July 29, 1921	747 00
".....	(Mr. Archibald's residence). Royal Mint.....	Installation of steam boilers.....	McKinley & Northwood, Ltd.....	Sept. 27, 1921	10,240 00

STATEMENT No. 1—Contracts let by the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922—Continued.

Works	Names of Contractors	Date of Contract	Amount
PUBLIC BUILDINGS—Continued			
Ontario—Continued			
Ottawa.....Connaught building.....	W. G. Edge, Ltd.....	Oct. 6, 1921	20,700 00
".....Government Printing Bureau.....	".....	Oct. 6, 1921	12,530 00
".....Royal Mint.....	Taylor & Lackey.....	Oct. 19, 1921	4,284 00
".....Drill shed.....	McFarlane-Douglas Co., Ltd.....	Oct. 20, 1921	5,417 00 and \$7.50 per square (100 sq. ft.) for roof boarding which may be required.
".....Relaying of pavement on Wellington st., between Bank and Perley Home.	O'Leary's, Ltd.....	Oct. 19, 1921	55,505 00 and unit prices to apply for additions or deductions to contract.
".....Post office.....	Art. Bourassa.....	Nov. 3, 1921	3,900 00
".....Hunter building.....	McFarlane-Douglas Co., Ltd.....	Dec. 1, 1921	1,417 00
".....Government Printing Bureau.....	Jean Ernest Poirier.....	Dec. 19, 1921	7,488 00
".....Supply of alternating or direct current necessary for light and power to all buildings, parks and street lighting, etc., etc.	The Ottawa Electric Company.....	Feb. 22, 1922	During 5 years from Oct. 1, 1921. Sched. of rates.
".....Supply of alternating or direct current necessary for light and power to all buildings occupied by Government and grounds adjacent	The Ottawa Hydro Electric Commission.....	Feb. 22, 1922	During 5 years from Oct. 1, 1921. Sched. of rates.
Walkerton.....Public building.....	Harris Bros.....	Jan. 19, 1922	1,475 00

Electric wiring and fittings

<i>Manitoba</i>					
Victoria Beach...	Air station.....	Completion of platform.....	Wm. John Wood.....	Sept. 14, 1921	2,316 00
Winnipeg.....	Tuxedo military hospital.....	Alterations and additions to "Old Power House".	Cotter Bros., Ltd.....	Oct. 24, 1921	17,450 00
<i>Alberta</i>					
Calgary.....	Examining warehouse.....	Alterations on fourth floor, fixing up Taxation Branch.	Baird & Stevenson, Ltd.....	Dec. 5, 1921	2,350 00
High River.....	Air Station.....	Workshop and wireless buildings, at.	Percy Taylor.....	Sept. 9, 1921	9,715 00
Red Deer.....	Post office.....	Fittings.....	Baird & Stevenson, Ltd.....	Nov. 8, 1921	2,775 00
<i>Saskatchewan</i>					
Estevan.....	Post office.....	Alterations to fittings.....	Wm. Maurer.....	Nov. 30, 1921	535 00
Moose Jaw.....	Public building.....	Electric freight elevator.....	Otis Fensom Elevator Co., Ltd.....	Feb. 18, 1922	3,600 00
"	Post office.....	Alterations to fittings.....	The Western Manufacturing Co., Ltd.....	Feb. 17, 1922	2,030 00
"	Public building.....	Works re supply and installation of elevator shaft in.	Bird, Woodall & Simpson.....	Feb. 18, 1922	3,800 00
Saskatoon.....	"	Alterations to hot water heating system in.	D. A. Ross & H. L. Parnell.....	Oct. 20, 1921	3,943 00
<i>British Columbia</i>					
Bamfield.....	Customs and Telegraph building.	Construction of.....	Geo. Calder.....	Aug. 31, 1921	9,535 00
Fairmont.....	R.C.M.P. Barracks.....	Water and Sewerage systems.....	Barr & Anderson, Ltd.....	July 21, 1921	4,715 00
Nanaimo.....	Post office.....	Alterations to fittings.....	McCrae Bros.....	Sept. 3, 1921	620 00
Vancouver.....	Postal station "D".....	Fittings and alterations to.....	J. W. Bye.....	Aug. 29, 1921	2,525 00
"	Shaughnessy military hospital.....	Alterations to building.....	Edw. J. Ryan Contracting Co., Ltd.....	Oct. 11, 1921	4,645 00
William Head.....	Quarantine Station.....	Oil engine and generator in power house.	W. W. Fraser.....	Sept. 17, 1921	9,400 00
Work Point.....	Office building. Headquarters of Military District No. 11.	Reconstruction of.....	Knott & Jones.....	June 28, 1921	19,550 00
<i>HARBOURS AND RIVERS</i>					
<i>Nova Scotia</i>					
Bailey's Brook...	East pier.....	Extension to.....	Denton & Condon.....	Aug. 22, 1921	\$ 3,890 00
Port Hood.....	Wharf.....	Repairs to.....	Thomas D. Morrison.....	Oct. 31, 1921	Sched. of prices.
<i>New Brunswick</i>					
Back Harbour....	Public wharf.....	Construction of pier head at.....	F. L. Boone & G. S. Macdonald.....	Oct. 31, 1921	Sched. of prices.
Hatfield's Point..	Dredging.....	Class "B" per cu. yd.....	J. A. Gregory.....	June 11, 1921	\$0.33 per cu. yd.
(Belleisle Bay)					

DEPARTMENT OF PUBLIC WORKS

13 GEORGE V, A. 1923

Works	Names of Contractors	Date of Contract	Amount
HARBOURS AND RIVERS—Continued			
Nova Scotia—Continued			
St. John..... Dredging.....	J. A. Gregory.....	Nov. 18, 1921	\$0 40 per cu. yd.
" River..... Substructure of bridge over St. John River between Edmundston, N.B., and Madawaska (Maine).	J. R. Burpee and His Majesty and Highway Commission of the State of Maine.	April 20, 1921	Sched. of prices.
" " Superstructure of bridge over St. John River between Edmundston, N.B., and Madawaska (Maine).	The Canadian Bridge Co., Ltd., and His Majesty and Highway Commission of the State of Maine.	April 30, 1921	about \$151,280.
" " Painting of half (Canadian side) of steel highway over St. Leonard's, N.B., and Van Buren, Maine.	E. A. Guimont.....	Dec. 9, 1921	\$990 00
Quebec			
Beloeil Station..... Guide pier.....	Costo Bros.....	Oct. 27, 1921	Sched. of prices.
Cointrecoeur..... Wharf approach.....	Hormisdas Gravel.....	Oct. 3, 1921	\$3,735 00
Gaspé..... Wharf.....	Arthur Nadeau.....	Oct. 25, 1921	Sched. of prices.
Grosse-Isle Quar. Stn..... Western wharf.....	Jos. Gosselin Ltd.....	Nov. 17, 1921	" "
Notre Dame des Sept. Douleurs..... " " " "	N. Letourneau and J. A. Fortier	Nov. 26, 1921	" "
Quebec (Joiner's shop)..... Kings wharf.....	A. Dugal.....	Dec. 10, 1921	\$1,056 50
Riviere du Lievre (Poupore)..... Training and landing pier.....	W. H. Kelly.....	Sept. 23, 1921	9,176 50
St. Michel de Bellechasse..... Wharf.....	J. R. Boulanger.....	Feb. 10, 1922	Sched. of prices.
Ontario			
Belleville..... Government wharf.....	The Frontenac Dredging Co., Ltd.	Sept. 2, 1921	\$0 65
Burlington..... Superstructure of a Strauss Trunnion Bascule bridge over channel.	The Hamilton Bridge Works Co., Ltd.	April 8, 1921	\$228,896 00
Cobourg..... South breakwater.....	H. A. Croft & Co.	Nov. 1, 1921	Sched. of prices.
Collingwood..... Eastern breakwater.....	Win. Birmingham.....	Nov. 16, 1921	" "
Collin's Bay..... Dredging channel to Government wharf and basin, and removal of old piles and crib work.	The Frontenac Dredging Co., Ltd.	Dec. 15, 1921	\$0 50 per cu. yd.

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10
Fort William
(Mission River). Rubble mound extension to breakwater.....

Goderich..... Dredging at outer entrance chan-Class "A" per cu. yd., Class "B" per cu. yd.

Kingston..... Dredging slips at foot of Queen and Princess Streets..... Per cu. yd.....

MaeLaren's Land- ing..... Timber pilework wharf..... Construction of.....
North Bay..... Public wharf..... Reconstruction of.....
Ottawa and Hull Chaudiere bridge..... Revetment of masonry arch.....
Parry Sound..... Town wharf..... Repairs to.....
Point Edward..... Removal of any obstruction (sand and gravel) which may form in bed of River St. Clair, Ont.

Port Collborne..... Western breakwater..... Repairs to superstructure.....
"..... Repairs required for additional length of 100 feet of wall of breakwater
Providence Bay..... Wharf..... Repairs to.....
Sault Ste. Marie To clean up wholly and entirely all obstacles, etc. (excepting solid (St. Mary's rock) to grade elevation (559.6) the bed of river

Sheguandah..... Wharf..... Repairs to.....
(Manitoulin Island).
Whitby..... Western pier..... Construction of part of.....

Manitoba

The Pas..... Wharf..... Extension to.....

British Columbia

Alice Arm..... Wharf..... Construction of.....
Annie Bar..... Groins Nos. 1 and 3..... Repairs to.....
(Fraser River).

Boswell..... Floating wharf..... Construction of.....
Carroll's Landing..... Public floating wharf..... Construction of.....
(Arrow Lake).

Cowichan Bay..... Wharf..... Reconstruction of.....

Esquimalt..... New Dry Dock..... Construction of spur line of railway from Esquimalt and Nanaimo railway to.

O'Brien & Martin.....	Oct. 4, 1921	\$1.39½ per ton of stone to enter into work. \$7.00 for A \$0.45 for B
Wm. Bermingham.....	July 13, 1921	\$1.00
The Frontenac Dredging Co., Ltd.....	Dec. 15, 1921	Sched. of prices. " " \$3,389.40 Sched. of prices. " "
J. S. Leitch.....	April 19, 1921	Sched. of prices.
Grant Bros.....	Feb. 23, 1922	" "
Grant Bros.....	Sept. 24, 1921	\$3,389.40
R. G. Weddell and R. G. Saunders.....	Nov. 30, 1921	Sched. of prices.
The Chick Contracting Co., Ltd.....	Jan. 24, 1922	" "
Port Arthur Construction Co., Ltd.....	May 7, 1921	Sched. of prices.
".....	Aug. 13, 1921	\$13,200.00
McNamara Bros. and Thornton.....	Nov. 16, 1921	Sched. of prices.
The Soo Dredging & Construction Co., Ltd.....	July 15, 1921	\$125.00 per day of 10 working hours.
McNamara Bros. and Thornton.....	Dec. 21, 1921	Sched. of prices.
V. T. Bartram.....	Nov. 4, 1921	" "
L. Berry.....	Aug. 29, 1921	Sched. of prices.
W. T. Muse.....	Sept. 3, 1921	" "
Fraser River Pile Driving and Contracting Co., Ltd.....	Jan. 6, 1922	" "
F. P. Armstrong and Thos. F. Lean.....	Aug. 23, 1921	\$ 7,950.00
Thos. F. Lean.....	June 9, 1921	7,800.00
Fraser River Pile Driving and Contracting Co., Ltd.....	Nov. 30, 1921	Sched. of prices.
P. Lyall & Sons Construction Co., Ltd.....	July 27, 1921	" "
		contractors to pay rental to Gov't., 6 p.c. per annum on cost of spur line for its use during construction.

STATEMENT No. 1—Contracts let by the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—*Concluded.*

Works	Names of Contractors	Date of Contract	Amount
HARBOURS AND RIVERS—Con.			
Ontario—Con.			
Ganges (Nanaimo Wharf District).	Vancouver River Pile Driving and Contracting Co., Ltd.	Jan. 6, 1922	Sched. of prices.
Hope Bay Wharf (North Pender Island).	"	Sept. 30, 1921	" "
Ioco (Burrard) Pile bent and decking wharf Inlet).	R. Bumstead	July 16, 1921	" "
Kincolith Wharf.	Wm. Thomas Muse	June 15, 1921	" "
Ladysmith Wharf.	Wm. Greenlees	July 12, 1921	" "
Manson's Land Wharf.	"	Sept. 26, 1921	\$ 1,985 00
ing (Cortez Island).			
North Gabriola Wharf.	Vancouver Pile Driving and Contracting Co., Ltd.	Sept. 30, 1921	Sched. of price
Port Washington Wharf (North Pender Island).	"	Jan. 6, 1922	" "
Sandspit Wharf.	McDonald, Watson & Wither	Aug. 27, 1921	" "
South Pender Wharf.	Vancouver Pile Driving and Contracting Co., Ltd.	Sept. 30, 1921	" "
Steveston Jetty 3rd Section (mouth of Fraser River).	J. S. Connell Ltd.	Nov. 24, 1921	" "
Stewart River. Removal of boulders.	The British Yukon Navigation Co.	Sept. 26, 1921	not to exceed \$10,000 00
Stewart Timber addition to wharf.	Leonard Waide	Feb. 4, 1922	Sched. of prices.
Tofino (Comox-Alberni) Wharf.	Wm. Lowell Thompson	Oct. 28, 1921	" "
DREDGES, VESSELS AND PLANT			
Docking, repairing, renewals and painting of tug <i>Helena</i> .	Halifax Shipyards Ltd.	April 6, 1921	\$ 25,200 00
Overhauling and repairing of dredge <i>Fruhling</i> , P.W.D. No. 303.	Wallace Shipbuilding and Dry Dock Co., Ltd.	June 9, 1921	6,827 50

DEPARTMENT OF PUBLIC WORKS

13 GEORGE V, A. 1923

STATEMENT No. 2.—Of properties purchased or sold by the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.

Date of Conveyance	Vendors	Purchasers	Description of Property	For what Purpose	Area	Price
1921						\$ cts
April 4	His Majesty	Jos. Gosselin, Ltée	Bill of Sale of Ship "Hugh Quinlan"	Private enterprise		Bulk sum \$16,000 00
" 4	"	"	" " " " "Leo B."			
" 4	"	"	" " " " "Frank Q."			
" 4	"	"	" " " " "Nap L."			
" 4	"	"	" " " " "Annie Q."			
" 4	"	"	" " " " "Edgar B."			
" 4	"	"	" " " " "Eugene L."			
" 4	"	"	" " " " "Red Seow No. 2"	Site for wharf	1½ acres	300 00
" 9	Stephen Corbett (widower)	His Majesty	Sale of land consisting of two parcels, Bass River, N.S.			
" 12	His Majesty	H. J. Dickson	Bill of sale of tug "Ottawa"	Champlain dry dock	86,256 sq. ft	1,000 00
" 16	M. Thomas Poiré	His Majesty	Quit claim deed re land being parts of lot No. 14 and parts of St. J. Bte. and St. Thomas Sts., Lauzon, Que.			
" 22	Leon Bouverat	"	Release of all claims for damages to lot No. 24-9, R. 9, Tp. of Latulippe, Timiskaming, Que.	Quinze Lake dam	8.40 acres	520 00
" 29	C. W. Shapre & Co., Ltd.	"	Bill of sale of sailing ship "P.L.S. No. 1"	Gov't purposes	5.10 acres	1 00 1,800 00
May 31	Alumite Mining and Products Co., Ltd.	"	Release of all claims, etc., re piece of land being part of section 2, Esquimaux Dist., Vancouver Island, B.C.			
June 7	His Majesty	H. J. Dickson	Bill of sale of hull and house "Drledge No. 120,"	Private enterprise		227 25
" 15	"	Corporation of Georgetown	Grant of parcel of land at Georgetown, Ont.	Concrete roadway		Free grant.
" 16	Grant Garage, Ltd.	His Majesty	Sale of emplacement on northern side of Hillside Ave., known as lot No. 1416, Westmount, Que.	Gov't purposes		140,000 00
" 17	Provincial Gov't of British Columbia	Dominion Govt	Transfer of site of wharf on Columbia River East Robson, B.C.	Priv. enterprise		Free transfer.
" 20	His Majesty	Westminster Trust Co.	Grant of parcel of land being lot 1, block 13, New Westminster, B.C.			
" 28	Notice of expropriation	"	Expropriation of land at Three Rivers, Que.	Sewerage service to post office	246 sq. ft.	45,000 00
" 28	"	"	Expropriation of land at Three Rivers, Que.	Sewerage service to post office	156 sup. ft	
July 14	Certificate of ownership	His Majesty	Certificate of ownership re tract of land—part of broken lot No. 2, Con. A, Tp. of Harris, Ont.	Timiskaming reservoir dam.	7 acres	35 00
Aug. 8	Notice of expropriation	Dept. of Public Works.	Expropriation of land at Atnarko, B.C.	Site for telegraph station Dry dock		Free transfer.
" 13	Dept. of Naval Service		Transfer of two small areas of land, Skinner's Cove, Esquimaux, B.C.			

SESSIONAL PAPER No. 31

	Certificate of title	His Majesty	Certificate of title <i>re</i> portion of bed of sea adjoining Sec. 6, R. 4, Cowichan Bay, B.C., also transfer of wharf from Provincial Govt. to Dom. Govt.	Govt. purposes	Free transfer.
Sept. 2	Ernest Dominecz	"	Release in connection with expropriation of land, Fox Point, N.S.	Breakwater	\$ 50 00
" 6	Larue, Trudel and Picher and The Manufacturing Engineering Corporation Ltd.	"	Deed of sale of assets of Lauzon Engineering Ltd., amongst other things—rights of Co. in lease of Gov't property, Levis, Que.		62,577 00
" 19	The H. J. Daly Co., Ltd.	"	Sale of parcel of land and premises on west side of Sussex st., also parcel No. 1, on westerly side of Sussex st., and parcel No. 2, on s.e. angle of parcel No. 1, Ottawa, Ont.	Gov't purposes.	1,000,000 00
" 19	Guillaume Lebris	"	Release and discharge of all claims for damages to lots 56, R. 3 and to lot 56, R. 4, Township of Guigues, Que.	Timiskaming reservoir 30-12 acres dam.	60 12
Oct. 17	Liquidators of Silica Sand and Gravel Co., Ltd.	"	General release for all claims for damages, etc., arising out of issue of license for dredging sand and gravel, Spanish Bank (English Bay), B.C.		2,500 00
" 26	Certificate of title	"	Certificate of title <i>re</i> bed of sea adjoining Sec. 1, R. 4 east, North Salt Spring Island, B.C.	Charges harbour wharf	
" 31	His Majesty	Jos. Amiot, executor of Severe Amiot—deceased.	Grant of strip of land in lot No. 2239, St. Peter's Ward, Quebec, Que.	Private enterprise	No consideration.
Nov. 16	Certificate of title	His Majesty	Certificate of title <i>re</i> part of Sections 72 and 73, Lake District and part of sec. 74, R. 2, East Lake Dist. Municipality of Saanich, B.C.	Gov't purposes	66-47 acres.
" 24	Frank McMahon	"	Release of all claims in <i>re</i> expropriation of n.e. part of block "A", plan 1208, also s.e. cor. of Rosedale Heights and MacLennan Ave., Toronto, Ont.	Casualty clearing station	1,313 43
" 29	Governing Council of Salvation Army of Canada East.	"	Release and discharge in <i>re</i> agreements and claims in connection with lease, dated April 4, 1917.		1 00
Dec. 1	Provincial Gov't of British Columbia.	Dept. of Public Works.	Agreement by which Provincial Gov't of B.C. agrees to pay for cost of materials, etc., in <i>re</i> repairs, etc., to public wharf, also to pay for maintenance of wharf slip, etc., Sorrento, B.C.		On basis of 50 p.c. of cost and repairs.
" 2	His Majesty	Burrard Dry Dock Co., Ltd.	Agreement <i>re</i> floating dock and appurtenant works, Vancouver Harbour (North Vancouver), B.C.	Dry dock	During 35 yrs., 4½ p.c. on \$2,500,-000 00

DEPARTMENT OF PUBLIC WORKS

13 GEORGE V, A. 1923

STATEMENT No. 2.—Of properties purchased or sold by the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—Continued.

Date of Conveyance	Vendors	Purchasers	Description of Property	For what Purpose	Area	Price
1921						
Dec. 2	Certificate of ownership...	His Majesty	Certificate of ownership and release of all claims for damages to lot No. 221 by construction of dam, Latchford, Ont.	Latchford dam		\$ 56 25 cts.
" 2	"	"	Certificate of ownership and release of all claims for damages to lot No. 184 by construction of dam, Latchford, Ont.			120 00
12	Governing Council of Salvation Army of Canada East.	"	Release and discharge of all claims in lease dated Jan. 20, 1917.			31,750 00
" 21	Certificate of ownership...	"	Certificate of ownership <i>re</i> part of lot No. 10, con. "D", tp. of Neebing—addition, Island No. 2, Fort William, Ont.	Kaministiquia and Mission river works.	4.964 acres	
" 29	Certificate of title...	"	Certificate of title <i>re</i> block No. 13 of Sec. 19, Barclay Dist., Bamfield, B.C.	Site of public building		1,000 00
" 29	His Majesty	Municipalite de la Paroisse de St. Boniface de Shawinigan.	Exchange of land by which His Majesty conveys piece of land No. 73 and 25 feet in width of piece of land No. 2-12.			Free exchange
1922						
Jan. 17	Sarah E. Ferguson	His Majesty	Release and discharge of all claims for damages arising out of collapse of wharf at New Massett, B.C.			\$ 6 00
" 24	Adelard Grignon	"	Release of all claims for damages to lot 49, R 3, tp. of Latulippe, Que.	Quinze Lake dam	5.08 acres	119 43
" 24	Joseph Grignon	"	Release of all claims for damages to lot 17, R 3, tp. of Latulippe, Que.	"	60 acres	123 11
" 24	Wilfrid Grignon	"	Release of all claims for damages to lot 50, R 3, tp. of Latulippe, Que.	"	1.75 acres	52 92
" 27	His Majesty	Town of Lauzon.	Permission granted to lay 8-inch water main and 22-inch sewer pipe through Gov't property at Champlain and Lorne dry docks, Lauzon, Que.	During pleasure		
" 30	John H. McPherson.	His Majesty	Release and quit claim in <i>re</i> lots "A" and "C", Malignant Cove, N.S.	Right of way to wharf	1.4 acre	50 00
" 30	Philippe Richard	"	Release of all claims for damages to lots 21-22, R 8, and part of lot 19, R 7, and part of lot 13, R 8, tp. of Latulippe, Que.	Quinze Lake dam	Total area 32.92 acres.	1,071 00
" 30	Joseph Richard	"	Release of all claims for damages to part of lot No. 12, R 8, tp. of Latulippe, Que.	"	10.67 acres	870 50
" 30	John J. Chisholm	"	Release and quit claim <i>re</i> land marked "D", Malignant Cove, N.S.	Right of way to wharf	2.29 acres	100 00

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Jan.	31	Charles Richard	"	Release and quit claim to 2 parcels of land, parts of lot 10 and 11, R 8, tp. of Latulippe, Que.	Quinze Lake dam	23.15 acres	1,648 08
"	31	Albert Hye	"	Release and quit claim to 4 parcels of land, west part of lot 6, R 1, tp. of Latulippe, Que.	"	21.10 acres	492 34
Feb.	1	W. N. Giegerich	"	Release of all claims for damages arising out of collapse of wharf, New Massett, B.C.			53 13
"	3	Eugene Legoff	"	Release of all claims for damages to east part of north part of lot 22, R 1, tp. of Latulippe, Que.	Quinze Lake dam	16.50 acres	1,014 85
"	3	J. B. Briere, fils	"	Release of all claims for damages to part of lot No. 2, R 1, tp. of Latulippe, Que.	"	21 acres	666 81
"	3	J. L. Lafond	His Majesty	Release of all claims for damages to part of lot 6, R 1, tp. of Latulippe, Que.	Quinze Lake dam	1.65 acres	134 37
"	3	J. B. Briere, pere	"	Release of all claims for damages to part of lot No. 1, R 1, tp. of Latulippe, Que.	"	37.75 acres	966 40
"	3	Zephirin Moreau	"	Release of all claims for damages to part of lot No. 4, R 8, tp. of Latulippe, Que.	"	74.13 acres	2,103 03
"	3	Edouard Moreau	"	Release of all claims for damages to part of lot No. 5, R 8, tp. of Latulippe, Que.	"	38.05 acres	466 29
"	8	His Majesty	Ganges Water Co., Ltd.	Permission granted to Co. to install pipe line on public wharf, Ganges, B.C.	For the carrying of water	During pleasure.	
Mar.	2	"	Isidore Morin	Grant of land, being part of lot 32, south side of Main road, Gaspé, Que.	Private enterprise		400 00
"	2	Certificate of title	His Majesty	Certificate of title re part of sec. 10, Skinner's Cove, B.C.	For road purposes (re dry dock).	0.207 acres	
"	2	"	"	Certificate of title re release of part of sec. 10, Skinner's Cove, B.C.	For road purposes (re dry dock).	0.012 acres	25 00
"	2	"	"	Certificate of title re release of part of sec. 10, Skinner's Cove, B.C.	For road purposes (re dry dock).	0.57 acres	1,712 25
"	28	His Majesty	Benjamin Franklin Trask.	Grant of parcel of land and premises on eastern side of Main st., Yarmouth, N.S.			7,700 00
1914							
April	22	The following items were received too late		for insertion in last year's Annual Report (1920-1921)			
		Dept. of Public Works.		Transfer of parcel of land, being part of lot No. 3, block "A" The Pas, Man.	Gov't purposes	0.01 acre	75 00
1915							
Feb.	3	William McCurdy	His Majesty	Release for all losses and damages caused to part of lot No. 21, tp. of Duhamel, Que.	Timiskaming reservoir dam.		120 00
1916							
Mar.	1	Ars. Gagnon et ux.	"	Release of all claims in re lot No. 51, tp. of Guigues, Que.	Quinze Lake dam	51.93 acres	51 93
"	23	Louis Girard	"	Release of all claims in re lots 45a and 46a, tp. of Duhamel, Que.	"	9.70 acres	121 00

STATEMENT No. 2.—Of properties purchased or sold by the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—*Concluded.*

Date of Conveyance	Vendors	Purchasers	Description of Property	For what Purpose	Area	Price
1917						
Sept. 25	Jean Beaudet	His Majesty	Release of all claims in <i>re</i> lot No. 37, R V, tp. of Latulippe, Que.	"	76.44 acres	2,700 00
" 26	Hector Talon	"	Release of all claims in <i>re</i> lot No. 41, R V, tp. of Latulippe, Que.	"	24.90 acres	1,400 00
" 26	Albert Rheault	"	Release of all claims in <i>re</i> lot No. 6, R V, tp. of Latulippe, Que.	"		250 00
" 28	His Majesty	haudiere Power Owners and les-sees.	Agreement <i>re</i> improvements and regulation of flow of Ottawa River, Quinze and Expanse Lakes.			
Oct. 22	McLachlin Bros., Ltd.	His Majesty	Waiver of claims for damages on limit bordering Quinze and Expanse lakes, Timiskaming, Que.	Quinze Lake dam		7,165 90
" 25	Gillies Bros., Ltd.	"	Waiver of claims for damages on limit bordering Quinze lake and Expanse lake, Timiskaming, Que.	"		6,000 00
Nov. 17	The Colonial Lumber Co	"	Waiver of claims for damages on limit bordering Quinze lake and Expanse lake.	"		475 00
1918						
Mar. 12	The Bronson Company	"	Waiver of claims for damages on limit bordering Quinze lake and Expanse lake.	"		11,385 49
" 13	John B. Fraser	"	Waiver of claims for damages on limit bordering Quinze lake and Expanse lake.	"		1,909 36
" 22	Expanse Lumber Co., Ltd.	"	Waiver of claims for damages on limit bordering Quinze lake and Expanse lake.	"		3,453 00
April 17	The Hull Lumber Co., Ltd.	"	Waiver of claims for damages on limit bordering Quinze lake and Expanse lake.	"		5,438 00
" 18	Pte. J. Rheault	"	Release of all claims for damages to lot No. 4, R IX, tp. of Latulippe, Que.	"	41 acres	1,000 00
July 6	George Thibault	"	Release of all claims for damages to lot No. 20, R VII, tp. of Latulippe, Que.	"	4.60 acres	108 50
" 6	Charles Prince	"	Release of all claims for damages to lot No. 33, R V, tp. of Latulippe, Que.	"	83.06 acres	500 00
" 9	Aime Gauthier	"	Release of all claims for damages to lot No. 31, R VI, tp. of Latulippe, Que.	"	80.35 acres	500 00
Aug. 9	Jos. Paquin	"	Release of all claims for damages to lot No. 28, R VI, tp. of Latulippe, Que.	"	51.50 acres	200 00
Sept. —	J. C. Rheault	"	Release of all claims for damages to business, etc., caused by raised surface of Quinze lake, tp. of Latulippe, Que.	"		50 00

SESSIONAL PAPER No. 31

1920						
Feb. 27	Govt. of New Brunswick	Federal Govt.	Sale of "old Govt. House property", Fredericton, N.B.	Mil-Hospital	23.5 acres	50,000 00
" 13	J. A. Grant & Co., Ltd.	His Majesty	Release of all claims in re contract for grain conveyer, St. John Harbour, N.B.			8,696 59
" 21	Chas. H. Thicke and wife.	"	Release of all claims for damages to parcel of land No. 3558, New Liskeard, Ont.	Timiskaming dam	1/40 acres	75 00
Aug. 25	L. A. Rostein	"	Bill of sale re Dredge "P.W.D. No. 313"			10,250 00

STATEMENT No. 3.—Of properties leased to and from the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.

Date of Lease	Lessor	Lessee	Description of Property	For what Purpose	Duration of Lease	Rental
1921						
April 1.....	The Dominion Bank.....	His Majesty.....	Lease of 3rd floor (except two rooms) in building, cor. 1st Street East and 8th Avenue, Calgary, Alta.	Forestry Branch, Int. Dept.	2 years from April 1, 1921.	\$2,400 per ann.
" 5.....	The Royal Bank of Canada.	"	Lease of rooms Nos. 110, 111, 112, 113, 114 and 115 on first floor of Royal Bank building, London, Ont.	Dist. Engineer—Public Works Dept.	1 year from April 3, 1921.	\$3,050 per ann.
" 8.....	Arthur Henry Brenner.....	"	Lease of 3 floors, basement and attic 184 to 190 inclusive, with outbuildings on Horton st., London, Ont.	S.C.R. Department.....	2 years from Mar. 1, 1921.	\$3,900 per ann. (renewable)
" 8.....	"La Sauvegarde" (The Life Insurance Co. of.)	"	Lease of office on s.e. cor. of roof of "La Sauvegarde", s.e. cor. of Notre Dame and St. Vincent sts., Montreal, Que.	Signal Service, Marine and Fisheries.	1 year from May 1, 1921.	\$475 per ann.
" 13.....	Henry Crew.....	"	Lease of roller skating rink on lot No. 9, block 27, Nanaimo, B.C.	11th Machine Gun Brigade (M. and I.).	2 years from Feb. 1, 1921.	\$600 per ann. (renewable)
" 15.....	His Majesty.....	The Smart Apparel Co. Ltd.	Lease of west half of 4th floor of "Henry Building", n.e. cor. of Richmond and Duncan sts., Toronto, Ont.	Private purposes.....	3 years and 11 months from Aug. 1, 1921.	\$208.50 per m.
" 22.....	Alexander Macdonald.....	Hi Majesty.....	Lease of rooms 8 to 13 inclusive in "K.W.C. Block," Nelson, B.C.	Inspector of Gas and Electricity (T. and C.). Dist. Engineer P.W.D.	1 year from April 1, 1921.	\$720 per ann.
" 25.....	Dorchester Realities Ltd..	"	Lease of 2,185 sq. ft. of ground floor on south side of entrance and offices 501 and 505 on 5th floor and offices 809 and 810 on 8th floor and offices 1001 and 1005 on 10th floor of "Shaughnessy Building," Montreal, Que.	Insp. of Taxation, Pub. Works Dept., M. and F. and Income Tax Depts.	3 years from May 1, 1921.	\$25,089.55 per ann.
" 26.....	Mrs. Clara Payson Rice..	"	Lease of homestead and store on west side of main road and south side of bridge, Weymouth, N.S.	Post office.....	1 year from June 1, 1921.	\$200 per ann.
" 28.....	H. L. Putnam and Estate of John Withell.	"	Lease of basement and ground floor of "Old Stanley Church," Stanley st., Montreal, Que.	Militia and Defence.....	1 year from May 1, 1921.	\$6,000 per ann. (renewable)
" 29.....	Reginald Francis Field....	"	Lease of 2 storey frame building No. 136, 15th Ave., east, Calgary, Alta.	Interior Dept.....	1 year from June 1, 1921.	\$540 per ann.
" 30.....	John Anthony Reche.....	"	Lease of 2nd floor of building, n.e. cor. of John and Main sts., Hamilton, Ont.	Insp. of Gas and Electricity (Trade and Commerce).	2 years from May 1, 1921.	\$720 per ann.
" 30.....	John Albert Schultz.....	"	Lease of ground floor, basement and 1st floor in building, Dalhousie st., Brantford, Ont.	Militia and Defence.....	3 years (if possible).	\$3,660 per ann. (renewable)

May 2	.....	Dominion Life Assurance Co.	"	.....	Lease of rooms 502 to 507 inclusive, on 5th floor of "Westman Chambers," Regina, Sask.	Soldier S. Board	1 year from May 1, 1921.	\$2,400 per ann.
" 2	.....	Dominion Life Assurance Co.	"	.....	Lease of rooms 508 and 509 on 5th floor of "Westman Chambers," Regina, Sask.	"	1 year from June 1, 1921.	\$54 per m.
" 10	.....	McDougal's Limited	"	.....	Lease of premises on 1st, 2nd and 3rd floors in "Sussex Building," south side of Sussex st., Ottawa, Ont.	Air Board (M. and D.)	3 years from Feb. 18, 1921.	\$7,233.45 per ann.
" 10	.....	Canadian City and Town Properties, Ltd.	"	.....	Lease of 2,000 sq. ft. on ground floor of "York Building," Saskatoon, Sask.	Customs Examining Warehouse.	1 year from June 5, 1921.	\$1,800 per ann.
" 10	.....	Alexander Laplante	"	.....	Lease of basement and 1st floor of building on part of lot 15, north of Water st., facing on Pitt st., Cornwall, Ont.	Militia and Defence	1 year from Mar. 1, 1921.	\$360 per ann. (renewable)
" 18	.....	The Bank of Toronto	"	.....	Lease of one room on upper floor of "Bank Building," cor. Queen st. and Logan Ave., Toronto, Ont.	Gas and Electricity (T. and C.)	1 year from May 1, 1921.	\$240 per ann.
" 18	.....	Bawlf Securities, Ltd.	"	.....	Lease of suite No. 251 on 4th floor of "Chamber of Commerce Building," Winnipeg, Man.	Insp. and Staff of Fisheries, Prairie Provinces.	1 year from May 1, 1921.	\$360 per ann.
18	.....	The Imperial Canadian Trust Co.	"	.....	Lease of rooms 510 and 511 in "Canada Building," Saskatoon, Sask.	Soldier Civil Re-Establishment.	1 year from May 1, 1921.	\$1,816.70 per ann.
" 20	.....	J. C. Brennan	"	.....	Lease of whole of 1st, 2nd, 3rd and 4th floors (excepting rooms 411 and 414 on 4th floor) in "Trafalgar Building," Ottawa, Ont.	Annuities Branch, Post Office and Interior Departments.	years from May 1, 1921.	\$16,880.60 per ann.
" 21	.....	Hudson's Bay Co.	"	.....	Lease of 4,721 sq. ft. on ground floor of western half of lot 7, block 207, in "Megaw Building," Vernon, B.C.	S. S. Board	1 year from Mar. 15, 1921.	\$1,500 per ann.
" 27	.....	His Majesty	William C. Piper	.....	Lease of portion of yard rear of Postal Station "A," St. James st., and use of lane leading thereto from Windsor st., Montreal, Que.	Parking autos	On a month to month basis.	\$45 per m.
" 30	.....	Catherina Jane Irwin	His Majesty	.....	Lease of whole of top floor in 3 storey brick building, Nos. 41 and 43, known as "Irwin Block," Campbellford, Ont.	Militia and Defence	1 year from Mar. 5, 1921.	\$120 per ann. (renewable)
" 31	.....	C. W. Lindsay, Ltd.	"	.....	Lease of room No. 26 on 3rd floor of "Lindsay Building," St. John st., Quebec, Que.	Supervisor S. S. B.	From May 23, 1921 to April 30, 1922.	\$21 per m.
" 31	.....	J. J. Mullin	"	.....	Lease of ground floor of 2 storey frame building, Bedford, Que.	Post Office	2 years from May 1, 1921.	\$400 per ann.
" 31	.....	Mercantile Trust Co. of Canada, Ltd.	"	.....	Lease of ground floor and basement of "Municipal Building," Hamilton, Ont.	Weights and Measures (T. and C.)	years June 1, 1921.	\$600 per ann.
June 1	.....	Enderton Investment Co., Ltd.	"	.....	Lease of all that portion of 2nd floor in "Enderton Building," Winnipeg, Man.	S. S. Board	1 year from May 1, 1921.	\$4,800 per ann.
" 1	.....	Enderton Investment Co., Ltd.	"	.....	Lease of space on 2nd floor up from street, "Enderton Building," Winnipeg, Man.	"	1 year from May 1, 1921.	\$240 per ann.
" 1	.....	Belleville Club, Limited	"	.....	Lease of premises in rear portion of building occupied by Canadian Express Co., Belleville, Ont.	Weights and Measures (T. and C. Dept.)	1 year from June 1, 1921.	\$900 per ann.
" 7	.....	Council of Village of Shoal Lake	"	.....	Lease of one front room on ground floor of "Town Hall" and use of vault, Shoal Lake, Man.	Post office	1 year from Mar. 1, 1921.	\$480 per ann.

STATEMENT No. 3.—Of properties leased to and from the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—Continued.

Date of Lease	Lessors	Lessees	Description of Property	For what Purpose	Duration of Lease	Rental
1921						
June 8	Royal Bank of Canada	His Majesty	Lease of basement, mezzanine floor, 2nd, 3rd, 4th and 5th floors in "Royal Bank Building," cor. Sparks and Metcalfe sts., Ottawa, Ont.	Various Departments of Federal Administration.	1 year from May 1, 1921.	\$16,197.75 per ann.
" 8	The Kingston Health Association.	"	Lease of certain lands and premises known as "Mowat Sanatorium," Portsmouth, Ont. (near Kingston).	Treatment of tubercular persons.	On year to year basis.	No rental.
" 10	Mrs. Katherine Louisa Nickle (married woman)	"	Lease of 2 rooms on ground floor and one back room in "Howard House," Kingston, Ont.	Immigration office	3 years from May 31, 1921.	\$240 per ann.
" 10	Melita Lodge No. 20, I.O.O.F.	"	Lease of space on ground floor and western end of 2 storey building, on lot 18, block 4, Melita, Man.	Post office	From Mar. 1, 1921 to April 1, 1922.	\$400 per ann. (renewable)
" 10	Misses Emma and Alice Hart.	"	Lease of entire ground floor of 1½ storey building on lot between St. Francis road and Canada road, Edmundston, N.B.	"	2 years from June 1, 1921.	\$660 per ann.
" 10	Mrs. Maud Porter	"	Lease of one storey workshop building, No. 525A, 2nd Ave. west and shed at rear of 523A, 2nd Ave. west, Calgary, Alta.	S.C.R.	12 months from May 1, 1921.	\$40 per m.
" 15	Canada Permanent Mortgage Corporation.	"	Lease of space on front part of 3rd floor of "Canada Permanent Building," Winnipeg, Man.	Railway Commission	1 year from May 31, 1921.	\$145 per m. (renewable)
" 20	Earlscourt Realty Co., Ltd.	"	Lease of "Mackenzie Building," Nos. 134 and 136, west side of Lyon st., Ottawa, Ont.	Storage purposes for Indian Affairs.	From Feb. 10, 1921 to May 1, 1924.	\$3,500 per ann.
" 20	Flewelling Wilbur	"	Lease of 776 sq. ft. on ground floor of 3 storey stone building, Main st., Moncton, N.B.	Post office	2 years from June 15, 1921.	\$1,200 per ann.
" 21	Vancouver Orange Hall Co.	"	Lease of "Orange Hall Building," cor. Gore Ave. and Hastings st., east, Vancouver, B.C.	Postal station "B"	5 years from June 1, 1921	\$4,200 per ann.
" 21	London and British North America, Co., Limited.	"	Lease of rooms 1 to 12 inclusive and rooms 8, 9, 10, 11, 26 and 27 in "Duncan Building," Vancouver, B.C.	Various Departments of Federal Administration.	3 years from June 1, 1921.	\$300 per m.
" 21	Marysville Lodge No. 20, Knights of Pythias.	"	Lease of 2,000 sq. ft. in "Knights of Pythias Hall," Marysville, N.B.	Militia and Defence	1 year from Feb. 15, 1921.	\$20 per m.
" 27	Notre Dame Investment Co., Ltd.	"	Lease of office No. 305 in "Notre Dame Investment Building," Winnipeg, Man.	Dental Clinic S.C.R.	6 months from Aug. 15, 1921.	\$75 per m.
" 30	Glidden Campbell	"	Lease of 2nd storey of warehouse at Weymouth, N.S.	Militia and Defence	2 years from July 1, 1921	\$15 per m. (renewable)

PROPERTIES LEASED

July 7	Comox Agricultural and Industrial Association.	"	Lease of large room and ante-room in building, Courtenay Townsite, B.C.	Drill hall "C" Battery.	1 year from May 18, 1921.	\$300 per ann.
" 11	Great War Veterans' Association.	"	Lease of premises on lots 9 and 10, block 10, plan 64, Kerrobert, Sask.	Militia and Defence.	1 year from Jan. 1, 1922.	\$300 per ann. (renewable)
" 12	Sidney Herbert Lord Elphinstone and M. W. Elphinstone.	"	Lease of 252 sq. ft. on ground floor of building, No. 10125 100a st., Edmonton, Sask.	Government purposes.	1 year from May 1, 1921.	\$480 per ann.
" 13	Mrs. Elizabeth Evans.	"	Lease of store cor. 6th Ave. and Granville st., Vancouver, B.C.	Postal station "D".	3 years from Jan. 24, 1921.	\$150 per m. for 1st year. \$175 per m. for 2nd year and \$200 per month for 3rd year.
" 14	J. A. Denis Forest.	"	Lease of part of 1st floor of 3 storey brick building, St. Jacques de l'Achigan, Que.	Post office.	5 years from July 1, 1921.	\$409.40 per ann. (renewable)
" 14	His Majesty.	Town of Sturgeon Falls.	Lease of land, portion of public building site, Sturgeon Falls, Ont.	Police station.	From year to year from July 14, 1921.	\$1 per m.
" 14	A. W. Thompson.	His Majesty.	Lease of 600 sq. ft. in "Ambrose Thompson Garage," Regina, Sask.	Garage (M. and D.).	1 year from June 1, 1921.	\$600 per ann.
" 15	J. A. Campbell and Sarah Campbell.	"	Lease of 1st floor of building, No. 81 King st. (excepting 92 sq. ft. from area), London, Ont.	S.C.R. Dept.	1 year from July 28, 1921.	\$420 per ann. (renewable)
" 18	Wm. George Miller.	"	Lease of 3 rooms on ground floor of building, Main st., Stellarton, Ont.	Post office.	1 year from May 1, 1921.	\$650 per ann.
" 18	Whitmore Bros.	"	Lease of ground floor, 1st floor and basement in building, cor. 12th Ave. and Hamilton sts., Regina, Sask.	Militia and Defence.	1 year from June 1, 1921.	\$5,400 per ann.
" 21	Ottawa Building Co., Ltd.	"	Lease of premises composed of west half of lot 19, south side of Wellington st., Ottawa, Ont.	Law Clerk, etc., Int. Dept.	1 year from June 1, 1921.	\$2,560 per ann.
" 22	Mrs. Eliz. U. Soman.	"	Lease of front rooms on 2nd floor of brick building on East st., adjoining post office, Port Colborne, Ont.	Collector of canal revenues (Rys. and Canals).	3 years from July 1, 1921.	\$240 per ann.
" 22	Chas. J. Helm and G. S. Anderson.	"	Lease of 1st and 2nd floors of "Moncton Paint Co's. Building," Moncton, N.B.	Armoury accommodation, Militia and Defence.	5 years from May 1, 1921.	\$2,000 per ann.
" 25	Wm. James Southam.	"	Lease of top or 6th floor of "Southam Building," Calgary, Alta.	S.S. Board.	6 months from June 16, 1921.	\$750 per m.
" 25	Union Bank of Canada.	"	Lease of 2 rooms, vault and closet on 2nd floor of "Union Bank Building," Moosemin, Sask.	Inspector of Dominion Lands Agencies.	1 year from June 26, 1921.	\$35 per m.
" 26	Lemuel Ezra Prowse.	"	Lease of 3 rooms on 1st floor of "Prowse Block," Charlottetown, P.E.I.	Superintendent of Dominion Dredges, Public Works Dept.	1 year from Nov. 1, 1921.	\$200 per ann.
" 26	Knox Presbyterian Church of Regina.	"	Lease of 2 storey frame building, Regina, Sask.	Militia and Defence.	3 years from Feb. 21, 1921.	\$2,400 per ann.
Aug 1	London and British North America Co.	"	Lease of offices 418, 419 and 420 in "Duncan Building," Vancouver, B.C.	Dept. of Agriculture.	2 years from Aug. 1, 1921.	\$60 per m.

STATEMENT No. 3.—Of properties leased to and from the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—Continued.

Date of Lease	Lessor	Lessee	Description of Property	For what Purpose	Duration of Lease	Rental
Aug. 1, 1921	His Majesty	The St. John Dry Dock and Shipbuilding Co., Ltd.	Agreement re hiring of hopper scows 104 and 101.	Private enterprise	6 months from Aug. 1, 1921.	\$21.25 per day for each scow.
" 1	Cyrille Renaud	His Majesty	Lease of ground floor of brick dwelling house, Loretteville, Que.	Post-office	5 years from Sept. 1, 1921.	\$400 per ann. (renewable)
" 2	Mills Bros., Limited	"	Lease of room No. 320 in "Imperial Building," Hamilton, Ont.	Taxation office	From July 15, 1921, to Dec. 1, 1923.	\$20 per m. (renewable)
" 3	Roderick J. Mackenzie	"	Lease of premises known as "Deer Lodge Hotel," Winnipeg, Man.	Mil. Hosp. for S.C.R.	1 year from May 1, 1921.	\$200 per m.
" 4	Wm. Warren and C. Egbert Sibbald	"	Lease of ground and upper floors of 1½-storey building known as "Ford Garage," Banff ave., Banff, Alta.	Militia and Defence	3 years from Aug. 23, 1921.	\$50 per m.
" 8	Sir Henry Mill Pellatt	"	Lease of 2,440 sq. ft. in building, 48 University ave., Toronto, Ont.	Sergeants' Mess, Queens Own Rifles.	3 years from April 1, 1921.	\$600 per ann.
" 8	Bank of Nova Scotia	"	Lease of rooms 31 and 32 in "Bank of Nova Scotia Building," St. Catharines, Ont.	Ass't Insp. of Taxation.	1 year from July 2, 1921.	\$720 per ann.
" 9	Henry Dennie Johnson	"	Lease of 3 storey brick building on 2nd st., Edmonton, Alta.	Examining Warehouse and Kings Warehouse.	3 years from Aug. 14, 1921.	\$4,320 per ann.
" 9	The Manitoba and Saskatchewan Bible Society	"	Lease of rooms 1, 2 and 3 on ground floor with portion of basement of "Bible House," Winnipeg, Man.	Weights and Measures (T. and C.).	1 year from July 1, 1921.	\$1,300 per ann. (renewable).
" 11	Mrs. Annie Jane Martin	"	Lease of 3 floors and basement of "Martin Building," Wellington st., Ottawa, Ont.	Immigration and Colonization.	1 year from July 21, 1921.	\$5,500 per ann.
" 12	McDougal's Limited	"	Lease of premises, 105 Murray st., Ottawa, Ont.	Storage for Printing Bureau.	From Aug. 29, 1921 to May 1, 1923.	\$2,390 per ann.
" 15	J. H. Cameron and A. M. Johnstone	"	Lease of 3 rooms (G. H. and I.) in building on lots 24 and 25, Block 156, Saskatoon, Sask.	Weights and Measures (T. and C.).	From Nov. 11, 1921, to Nov. 1, 1922.	\$110 per m.
" 15	Hon. A. L. Langman	"	Lease of "Fairbanks Morse Building," known also as "Col. Becher Hospital," Calgary, Alta.	Hospital for S.C.R.	1 year from July 1, 1921.	\$900 per m.
" 17	Mrs. Eliz. Bowins (widow)	"	Lease of brick building, Hillside ave., Pontypool, Ont.	Militia and Defence	1 year from Mar. 1, 1921.	\$20 per m. (renewable).
" 18	W. P., A. P., and D. J. O'Connor	"	Lease of 1st floor and vault of "O'Connor Building," Huntingdon, Que.	Post-office	5 years from July 1, 1921.	\$1,000 per ann.

" 18.....	Pacific Dairies Limited...	"	Lease of 2nd floor of two storey brick building, 150 Union st., St. John, N.B.....	S.C.R.....	1 year from Sept. 6, 1921.	\$1,320 per ann.
" 20.....	Benjamin Buell Bellamy.	"	Lease of 3rd or top floor of building, 19 Main st., Smith's Falls, Ont.	Militia and Defence.....	3 years from May 1, 1921.	\$165 per ann.
" 20.....	Corporation of City of Brockville.	"	Lease of 2 rooms on ground floor of "City Building," Brockville, Ont.	Insp. of Gas and Electricity (T. and C.).	1 year from Sept. 18, 1921.	\$15 per m.
" 20.....	Western Union Telegraph Company.	"	Agreement re accommodation of Government telegraph wire on poles between Port Hood and Port Hawkesbury, C.B., on highway (32 miles).	.....	1 year from July 1, 1921.	\$6 per mile.
" 22.....	Sydney Richmond Margaretson.	"	Lease of entire 8th floor and rooms 703, 704 and 705 in "Northwest Building," Vancouver, B.C.	S.S. Board.....	2 years from July 1, 1921.	\$4,200 per ann.
" 22.....	Mrs. Betty Tobias.....	"	Lease of 2 storey frame building, n.e. cor. Railway and 8th sts., Morden, Man.	Militia and Defence.....	1 year from June 1, 1921.	\$40 per m.
" 24.....	Department of Naval Services vice.	Dept. of Public Works.	License No.231, call signal V.D.K.for current for fiscal year covering radiotelegraph equipment on board of.	C.G.S. <i>Tyrion</i>	1 year from April 1, 1921.	Sched.of rates
" 24.....	Andrew McMillan and Wm. Costain.	His Majesty.....	Lease of ground floor of 3 storey brick building on west side of Main st., Toronto East, Ont.	Postal station "H".....	1 year from Oct. 1, 1921.	\$100 per m.
" 24.....	Regina Exhibition Board.	"	Lease of whole of space under grand stand of building, Exhibition Grounds, Regina, Sask.	Militia and Defence.....	1 year from June 15, 1921.	\$75 per m.
" 26.....	David John Nesbitt..... (Sheriff).	"	Lease of ground floor of building on lot 39, Brighton, Ont.	Post-office.....	5 years from Sept. 4, 1921.	\$376 per ann.
" 26.....	Independent Van and Storage Co., Ltd.	"	Lease of entire ground floor of building, 780 Beatty st., Vancouver, B.C.	S.C.R.....	2 years from July 15, 1921.	\$1,800 per ann. (renewable).
" 29.....	F. B. Black., Chas. W. Fawcett and H. M. Wood.	"	Lease of 1st and 2nd floors of 2 storey building on west side of Crescent st., Sackville, N.B.	Militia and Defence.....	2 years from July 1, 1921.	\$25 per m.
" 29.....	Geo. Pheasey and Chas. C. Batson.	"	Lease of 2 stores on ground floor, also space in basement of "Alexandra Block," Edmonton, Alta.	Dom. Lands Office (Int. Dept.).	3 years from July 1, 1921.	\$6,000 per ann.
Sept. 1.....	Thomas Henry Blow.....	"	Lease of "Blow Building," Calgary, Alta....	Interior Department....	5 years from Sept. 1, 1921.	\$21,429 per ann.
" 1.....	Hon. Sir Daniel H. McMillan, K.C.M.G.	"	Lease of rooms Nos. 406 and 407 in "Avenue Block," Winnipeg, Man.	School Lands Branch, (Int. Dept.)	1 year from Sept. 1, 1921.	\$81 per m.
" 2.....	Westmount Garage Registered.	"	Lease of ½ of front of store, 4278 St. Catherine st. west, Westmount, Que.	Gas. Insp. Office.....	3 years from May 1, 1921.	\$300 per ann. (renewable).
" 6.....	His Majesty.....	Down Town Association.	Lease of portion of site of "Federal Building," cor. Yonge and Front sts., Toronto, Ont.	Parking autos.....	Monthly tenancy from Aug. 1, 1921.	\$100 per m.
" 6.....	"	W. H. Kelly Lumber Co.	Lease of tug <i>Alta</i>	Private enterprise.....	3 weeks from date tug is taken over at Victoria shipyards.	\$5 per day.
" 8.....	Miss Margaret Marie Thompson.	His Majesty.....	Lease of wooden frame warehouse and basement, Yarmouth, N.S.	Militia and Defence.....	2 years from June 1, 1921.	\$600 per ann.

STATEMENT No. 3.—Of properties leased to and from the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—Continued.

Date of Lease	Lessors	Lessees	Description of Property	For What Purpose	Duration of Lease	Rental
1921						
Sept. 9	F. S. Collacott	His Majesty	Lease of offices on 2nd floor of "Collacott Block," Yorkton, Sask.	Inspector of Taxation	1 year from Sept. 1, 1921.	\$720 per ann.
" 10	James Alex. Yager	"	Lease of 2,075 sq. ft. of easterly portion of ground floor and 587 sq. ft. of easterly portion of basement in building at Swift Current, Sask.	Post-office	1 year from June 20, 1921.	\$720 per ann.
" 16	The Imperial Canadian Trust Co.	"	Lease of suites 601, 602, 606 and 607 in "Canada Building," Saskatoon, Sask.	Post-office Insp. and staff.	1 year from Sept. 20, 1921.	\$3,242.40 per ann.
" 16	The Imperial Canadian Trust Co.	"	Lease of suit 514 in "Canada Building," Saskatoon, Sask.	Railway Mail service	1 year from Sept. 16, 1921.	\$300 per ann.
" 16	F. A. Blain	"	Lease of rooms 301 to 310 inclusive, and room 404 in "Connaught Building," Saskatoon, Sask.	S.S. Board	2 years from July 1, 1921.	\$5,517 per ann.
" 17	Notre Dame Investment Co., Ltd.	"	Lease of offices 504 to 509 inclusive, in "Notre Dame Investment Building," Winnipeg, Man.	S.S. Board	6 months from Nov. 15, 1921.	\$3,000 per ann. (renewable).
" 20	William McWilliams Inc.	"	Lease of 1,123 sq. ft. on ground floor of southerly half of brick building, cor. D'Auteuil and Elgin sts., Quebec, Que.	Supt. Dom. Arsenal	1 year from Sept. 1, 1921.	\$675 per ann.
" 20	His Majesty	W. H. Kelly	Lease of tug <i>Eileen</i>	Private enterprise	Period of 3 weeks from Sept. 20, 1921.	\$35 per week (in advance)
" 21	Saltcoats G.W.V. Association.	His Majesty	Lease of 1½ storey frame building on lot 5, block 9, plan 4383, Saltcoats, Sask.	Militia and Defence	1 year from July 1, 1921.	\$15 per m.
" 28	Central Realities Co., Ltd.	"	Lease of 3,900 sq. ft. in "Harphill Building," Prince Albert, Sask.	S.S. Board	3 months from Nov. 1, 1921.	\$200 per m.
" 28	The Post Publishing Co., Ltd.	"	Lease of rooms 4a and 3 in "Post Building," Sydney, N.S.	Naval Service Dept.	1 year from Oct. 1, 1921.	\$36 per m.
" 28	Arch. Galbraith	"	Lease of all ground floor of main building and addition thereto, Swift Current, Sask.	Dom. Lands (Int. Dept.)	1 year from Nov. 17, 1921.	\$175 per m.
Oct. 1	The Fort Frances Masonic Building Association.	"	Lease of two rooms in n.w. cor. of "Masonic Building," Fort Frances, Ont.	Res. Eng. (Pub. Works Dept.)	1 year from Oct. 1, 1921.	\$35 per m. (renewable).
" 4	R. L. Blackburn	"	Lease of 849 sq. ft. on 4th floor of "Plaza Building," Ottawa, Ont.	S.C.R.	From Sept. 1, 1921, to July 1, 1922.	\$823.53 per ann.
" 4	"	"	Lease of 2,426 sq. ft. on 4th floor of "Plaza Building," Ottawa, Ont.	"	1 year from July 1, 1921.	\$2,350 per ann.
" 4	His Majesty	J. L. Melanson	Lease of portion of ballast wharf, Pointe du Chene, N.B.	Private enterprise	10 years from Oct. 4, 1921.	\$25 per ann.

" 5	Chester Thompson Co., Ltd.	His Majesty	Lease of whole of 1st floor in "Thompson Chambers," also room in basement, Saskatoon, Sask.	Customs Dept.	1 year from Dec. 12, 1921.	\$4,800 per ann.
" 10	His Majesty	"The City of Battleford.	Lease and license to place and operate a 3-inch pipe line in basement of Dominion Public Building, North Battleford, Sask.	Private enterprise.	During pleasure	No money consideration
" 11	Andrew Liddle Perrester	His Majesty	Lease of "Empress Theatre," Red Deer, Alta.	Militia and Defence.	3 years from July 1, 1921.	\$600 per ann.
" 13	The Bank of Montreal.	"	Lease of 1st floor in "Montreal Bank Building," Saskatoon, Sask.	Taxation Branch (Finance Dept.).	3 years from July 29, 1921.	\$1,707 per ann.
Oct. 13	Arch. Wm. McGregor	"	Lease of lots 1 to 8 inclusive, block 195, with buildings thereon except shed on lot No. 8, Regina, Sask.	Militia and Defence.	1 year from Oct. 1, 1921.	\$3,900 per ann.
" 13	Estate Odilon Lacoursiere	"	Lease of 2 rooms on 1st floor of 1½-storey building on west side of Notre Dame st., St. Tite, Que.	Post office	5 years from Jan. 1, 1922.	\$144 per ann. (renewable)
" 14	Bourgon, Gagne & Co.	"	Lease of ground floor of 3-storey building, No. 5382 Sherbrooke st. west, Notre Dame de Grace (Montreal), Que.	Postal station.	3 years from Nov. 1, 1921.	\$2,400 per ann. (renewable)
" 17	His Majesty.	National Sand & Material Co., Ltd.	Agreement re hiring of dredge "Restigouche"	Private enterprise	2 years from date dredge is taken over from Pictou, N.S., until returned to Pictou, N.S.	\$5,500 per year.
" 18	Razon Twiss, Ltd.	His Majesty	Lease of premises on ground floor and in basement of building, cor. 22nd st. and 3rd Ave., Saskatoon, Sask.	Dom. Lands Office (Int. Dept.).	1 year from Oct. 1, 1921.	\$300 per m.
" 19	Notre Dame Investment Co., Ltd.	"	Lease of whole of 2nd floor in "Notre Dame Investment Building," Winnipeg, Man.	S.C.R.	1 year from Nov. 22, 1921	\$9,000 per ann.
" 19	Doctor Geo. Mackenzie Bowman.	"	Lease of one-storey frame building on west side of 5th st., Weyburn, Sask.	Militia and Defence	1 year from June 10, 1921.	\$600 per ann. (renewable)
" 20	James Henry Buchanan	"	Lease of rooms 1, 2 and 3 on ground floor of "Buchanan Apartments," (Goderich, Ont.	"	1 year from Jan. 1, 1922.	\$360 per ann.
" 22	Montreal Trust Co.	"	Lease of 2,040 sq. ft. in "Hesslein Building," Halifax, N.S.	Marine and Fisheries.	1 year from Oct. 15, 1921.	\$1,224 40 per ann.
" 25	His Majesty	Doctor Wm. F. Sheridan.	Lease of one-storey annex on west side of Post Office, Cardinal, Ont.	Private enterprise	1 year from Oct. 11, 1921.	100 per ann.
" 25	John Albert Short	His Majesty	Lease of one-storey frame building, No. 220 Hampton st., Winnipeg, Man.	Militia and Defence	1 year from Dec. 1, 1921.	50 per m.
" 25	Kamloops Building Syndicate, Ltd.	"	Lease of rooms 11 to 16 inclusive and rooms 19 to 22 inclusive and room 10 with part of ground floor and 2 vaults in buildings at Kamloops, B.C., and of room No. 23 in same building.	Interior Dept.	1 year from Sept. 1, 1921.	\$1,434 per ann.
"	Edward Sinclair	"	Lease of 364 sq. ft. in building on Main st., (Carberry, Man.	"	From Oct. 1, 1920 to Sept. 1, 1921.	\$390 60 per ann. (renewable)
"		"		Forest reserve managers (Int. Dept.).	1 year from Oct. 1, 1921.	\$216 per ann. (renewable)

STATEMENT No. 3.—Of properties leased to and from the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—Continued.

Date of Lease	Lessee	Lessors	Description of Property	For what Purpose	Duration of Lease	Rental
1921						
Oct. 31	Edward A. McDonald	His Majesty	Lease of one-storey frame building (30 ft. x 60 ft.), Sydney Mines, N.S.	Militia and Defence	2 years from July 1, 1921.	\$600 per ann.
" 31	Winfield Scott Wait	"	Lease of 1½-storey brick building, "Hillhurst Garage," Calgary, Alta.	Storage and repairs of cars (Int. Dept.)	From Nov. 1, 1921 to May 1, 1922.	\$150 per m.
Nov. 1	Robertson Mason	"	Lease of loft over building, with separate outside staircase, Powassan, Ont.	Militia and Defence	2 years from Feb. 1, 1921.	\$60 per ann.
" 4	His Majesty	Allen G. McAvity	Lease of portion of breakwater, St. John Harbour (Courtenay Bay), N.B.	Private enterprise	5 years from Nov. 1, 1921.	\$100 per ann.
" 3	Fred. W. Scott	His Majesty	Lease of rooms 302 and 303 in "Scott Block," Main st., Winnipeg, Man.	Insp. Dominion Lands Agencies	1 year from Dec. 31, 1921.	\$140 per m.
" 4	Dominion Life Assurance Co.	"	Lease of rooms 501, 510, 511, 512 and 513 on 5th floor of building, Regina, Sask.	S. S. Board	6 months from Dec. 1, 1921.	\$1,752 per ann.
" 4	Ashcroft Paint Co., Ltd.	"	Lease of portion of lot 11, block 12, and erections thereon, Ashcroft, B.C.	Telegraph service	15 years from Nov. 4, 1921.	\$1 per ann.
" 5	Alfred Theodore Carter	"	Lease of brick building on lot 33, 1st reserve, Caspe, Que.	Post office, Customs, etc.	5 years from Dec. 1, 1921.	\$700 per ann. with option to purchase for \$20,000.
" 11	Robt. McKay	"	Lease of space in building, n.e. cor. of Malboro and Mechanic sts., Maxville, Ont.	Post office	5 years from Oct. 15, 1921 (renewable)	\$360 per ann.
" 15	The Ottawa Terminals Ry. Co.	"	Lease of premises and offices in Central Station, Ottawa, Ont.	Board of Railway Commissioners of Canada	5 years from Nov. 1, 1921.	\$21,000 per ann.
" 17	John Robert Boyd	"	Lease of three-roomed flat on easterly part of lot 8, Huntsville, Ont.	Militia and Defence	3 years from Feb. 1, 1921.	150 per ann.
" 21	Mrs. Alice Maud Christie	"	Lease of 2-storey frame building, No. 204 Wilson st., Victoria West, B.C.	"	6 months from Dec. 6, 1921.	\$30 per m.
" 22	Ellen A. Montreuil	"	Lease of 2½-storey frame building, No. 24 London st. east, Windsor, Ont.	S.C.R.	1 year from Dec. 1, 1921.	\$1,200 per ann.
" 23	His Majesty	The Quebec Shipbuilding & Repairing Co., Limited.	Lease of property on St. Charles river, Quebec Que.	Private enterprise	20 years from Nov. 23, 1921	\$1,500 per ann.
" 24	The Board of Park Commissioners.	His Majesty	Lease of portion of Recreation Grounds on Gamble st., Vancouver, B.C.	Non-permanent Militia	3 years from April 1, 1920.	\$300 per ann.
" 26	The London & British North America Co., Limited.	"	Lease of entire 5th floor and rooms 401 to 414 inclusive, and rooms 426 and 427 in "Duncan Building," Vancouver, B.C.	S.C.R.	3 years from July 1, 1921	\$9,646.28 per ann.

"	26.....	Wm. Alfred Bauer.....	"	.....	Lease of rooms 509 to 512 inclusive, on 5th floor of "Pacific Building," Vancouver, B.C.	Geological Survey Branch, (Mines Dept.)	1 year from Dec. 25, 1921.	\$1,769.40
Dec.	1.....	Calgary Brewing and Malting Co., Ltd.	"	.....	Lease of "American Hotel Building," Macleod, Alta.	Militia and Defence.....	2 years from Nov. 8, 1921.	\$900 per ann.
"	1.....	Esquimalt and Nanaimo Railway Co.	"	.....	Agreement re siding in connection with dry dock, Skinner's Cove, B.C.	Government purposes.....	As long as agreement remains in force.	\$34.82 per ann.
"	3.....	Robert Lennox Blackburn	"	.....	Lease of 3rd floor of "Plaza Building," cor. Sussex and Rideau sts., Ottawa, Ont.	S.C.R.....	1 year from May 1, 1921.	\$3,650 per ann.
"	3.....	Sarah A. Batson.....	"	.....	Lease of one room on 1st floor of building, Welchpool, Island of Campobello, N.B.	Inspector of Fisheries (Marine and Fisheries)	1 year from Dec. 31, 1921.	\$120 per ann.
"	7.....	Notre Dame Investment Co., Ltd.	"	.....	Lease of west 1/4 of 1st floor in "Keywayden Building," Winnipeg, Man.	S.C.R.....	1 year from Jan. 1, 1922.	\$2,220 per ann.
"	9.....	Notre Dame Investment Co., Ltd.	"	.....	Lease of rooms 411 to 414, inclusive, "Notre Dame Investment Building," Winnipeg, Man.	"	6 months from Feb. 15, 1922.	\$75 per m.
"	9.....	Notre Dame Investment Co., Ltd.	"	.....	Lease of office No. 305, "Notre Dame Investment Building," Winnipeg, Man.	"	6 months from Feb. 15, 1922.	\$75 per m.
"	12.....	Wm. Jackson Hopwood, liquidator, of Hopwoods Ltd.	"	.....	Lease of 3 rooms on ground floor of 366 Water st., with use of front entrance in same, Peterborough, Ont.	Weights and Measures.....	1 year from Jan. 1, 1922.	\$300 per ann.
"	13.....	A. C. McDermott.....	"	.....	Lease of 3 storey brick building, cor. Langley and Broughton sts., Victoria, B.C.	Examining warehouse.....	1 year from Jan. 1, 1922.	\$400 per ann.
"	13.....	Patrick Fournier.....	"	.....	Lease of 3,590 sq. ft. on top of 3 storey concrete block, cor. Court and Canada sts., Edmundston, N.B.	Active Militia Units.....	1 year from Jan. 22, 1922.	\$90 per m.
"	18.....	Imperial Canadian Trust Co.	"	.....	Lease of room 513 in "Canada Building," Saskatoon, Sask.	Post-office Department.....	2 years from Nov. 1, 1921.	\$717.75 per ann.
"	24.....	The Calgary Paint and Glass Co., Ltd.	"	.....	Lease of 6 storey reinforced concrete building, Calgary, Alta.	Militia and Defence.....	3 years from June 1, 1921.	\$8,400 per ann.
"	29.....	Robert A. Brown.....	"	.....	Lease of 3rd or top floor in store building, north side of Foster st., Perth, Ont.	"	2 years from July 1, 1921.	\$125 per ann. (renewable).
"	29.....	Mrs. Margaret A. A. Bryan	"	.....	Lease of solid stone building on east side of Water st., opposite Post-office, St. Mary's, Ont.	"	3 years from Oct. 15, 1921.	\$600 per ann. (renewable).
"	29.....	Board of School Commissioners.	"	.....	Lease of "Park School," Dartmouth, N.S....	"	5 years from Nov. 9, 1921.	\$100 per ann. (renewable).
"	30.....	The Ottawa Amateur Athletic Association.	"	.....	Lease of building on n.w. cor. of Elgin st. and Laurier ave. w., Ottawa, Ont.	"	3 years from April, 15, 1921.	\$8,227.33 per ann.
"	30.....	The Tribune Publishing Co., Ltd.	"	.....	Lease of room No. 410 on 4th floor of "Tribune Building," Winnipeg, Man.	Immigration and Colonization.	1 year from Jan. 6, 1922.	\$1,200 per ann.
"	30.....	Thomas Culbert.....	"	.....	Lease of portion of ground floor of "Culbert Block," Merrickville, Ont.	Post-office.....	5 years from Jan. 1, 1922.	\$200 per ann.
"	30.....	R. Keltie Jones and The Eastern Trust Co.	"	.....	Lease of "Caverhill Hall" on n.e. cor. of Sydney and Mecklenberg sts., St. John, N.B.	Militia and Defence.....	1 year from Jan. 1, 1922.	\$1,500 per ann.
"	31.....	Silas Alexander Ramsay.	"	.....	Lease of north store premises No. 606 on 2nd st. east, Calgary, Alta.	Invalided Soldiers' Commission.	1 year from Dec. 5, 1921.	\$900 per ann.
"	31.....	Silas Alexander Ramsay.	"	.....	Lease of store No. 608 on 2nd Ave. east, Calgary, Alta.	S.C.R.....	1 year from Sept. 16, 1921.	\$900 per ann.

STATEMENT No. 3.—Of properties leased to and from the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—Continued.

Date of Lease	Lessor	Lessee	Description of Property	For what Purpose	Duration of Lease	Rental
1922 Jan. 4	Birks Building Ltd., successors to W. M., J. H., and G. W. Birks.	His Majesty	Lease of 3rd, 5th and 6th floors and basement of "Birks Building," Ottawa, Ont.	Railways and Canals and Agriculture.	3 years from Nov. 1, 1921.	\$6,697.14 per ann.
" 4	Birks Building Ltd., successors to W. M., J. H., and G. W. Birks.	"	Lease of rear ½ of 5th floor in "Birks' Building," Ottawa, Ont.	Dept. of Agriculture.	From Jan. 1, 1922, to Nov. 1, 1924.	\$1,400 per ann.
" 4	Kenneth A. McLeod	"	Lease of rooms 301 to 305, inclusive, on 3rd floor of "McLeod Block," Edmonton, Alta.	S.C.R.	1 year from Dec. 1, 1921.	\$315 per ann.
" 6	Sir Woodman Burbidge	"	Lease of two storey brick building and out-buildings, Calgary, Alta.	Militia and Defence.	3 years from Jan. 1, 1922.	\$5,400 per ann.
" 7	Ames-Holden-McCreedy Ltd.	"	Lease of one room on ground floor of "Ames-Holden-McCreedy Building," Montreal, Que.	Railways and Canals.	From Dec. 22, 1921, to May 1, 1926.	\$120 per ann.
" 7	Ames-Holden-McCreedy Ltd.	"	Lease of 6,922 sq. ft. on ground floor of "Ames-Holden-McCreedy Building," Montreal, Que.	S.C.R.	2 years and 11 months from June 1, 1921.	\$5,191.50 per ann.
" 7	Ames-Holden-McCreedy Ltd.	"	Lease of 12,000 sq. ft. on ground floor of "Ames-Holden-McCreedy Building," Montreal, Que.	"	3 years from May 1, 1921.	\$11,239.25 per ann.
" 7	Ames-Holden-McCreedy Ltd.	"	Lease of 2,397 sq. ft. on ground floor of "Ames-Holden-McCreedy Building," Montreal, Que.	Railways and Canals.	5 years from May 1, 1921.	\$2,397 per ann.
" 10	George Edward Gibson	"	Lease of ground floor of 2 storey frame building, 121 2nd Ave., Prince Rupert, B.C.	Militia and Defence.	3 years from April 1, 1920.	\$50 per m.
" 10	The Post Publishing Co., Ltd.	"	Lease of rooms 1 and 2 on 1st floor of "Post Publishing Building," Sydney, N.S.	Immigration and Colonization.	2 years from Dec. 1, 1921.	\$35 per m. (renewable).
" 10	Merrick Addie Leet	"	Lease of ground floor of 2 storey solid brick building, Main st., Qu'Appelle, Sask.	Militia and Defence.	1 year from Nov. 1, 1921.	\$40 per m. (renewable).
" 11	The Royal Trust Co.	"	Lease of rooms 308 and 309 on 3rd floor of "Campbell Building," Victoria, B.C.	S.C.R.	6 months from Dec. 1, 1921.	\$312 per ann. (renewable).
" 11	James Stuart Mackie	"	Lease of portion of basement, whole of ground floor, mezzanine floor and floor and freight elevator lobby in "Lancaster Building," Calgary, Alta.	Post-office and S.C.R.	21 years from Jan. 1, 1922.	\$30,515.88 per ann.
" 14	His Majesty	Collingwood Shipbuilding Co., Ltd.	Lease of "Graving Dock Property", Kingston, Ont.	Private enterprise.	4 years from April 30, 1920.	\$5,000.00 per ann.

" 16.....	Isaac Mallette.....	His Majesty.....	Lease of cabin, sheds and toilet building, Townsite of Mayo Landing, Yukon Territory.	Post-office.....	1 year from Sept. 1, 1921.	\$200 per ann.
" 16.....	James Murphy.....	"	Lease of full sized basement and two lower floors of brick building, No. 114 Simpson st., Fort William, Ont.	Militia and Defence.....	1 year from Dec. 1, 1921.	\$225 per m.
" 16.....	Bawlf Securities, Ltd.....	"	Lease of rooms 231, 233 and 237 on 3rd floor and offices 208 and 220 on 2nd floor of "Chamber of Commerce Building", Winnipeg, Man.	Dom. Water Power Branch (Interior Department).	1 year from Dec. 1, 1921.	\$195 per m.
" 19.....	The Standard Bank of Canada.	"	Lease of one room on 1st floor of "Standard Bank Building", Belleville, Ont.	Food Inspection District No. 10.	From Feb. 23, 1922 to June 23, 1922.	\$17.50 per m.
" 26.....	The Board of Governors, Bishop Pinkham College.	"	Lease of property known as "Bishop Pinkham College" (also as "Sunnyside Hospital"), Calgary, Alta.	Mil. hosp. by invalidated Soldiers' Commission.	On year to year basis from Dec. 9, 1921.	\$3,000 per ann.
" 26.....	Arcade, Limited.....	"	Lease of 1,000 sq. ft. in centre portion of 2nd floor of 3-storey building, Dunnville, Ont.	Militia and Defence.....	1 year from June 17, 1921.	\$10 per m.
" 27.....	R. Simpson Co., Ltd.....	"	Lease of "Keen's Building", No. 174 Spadina Ave., Toronto, Ont.	"	5 years from Dec., 13, 1921.	\$20,000 per ann.
" 27.....	The Fort Frances Masonic Building Association, Ltd.	"	Lease of 2 rooms in n.w. cor. of "Masonic Building", Fort Frances, Ont.	Resident Eng. (P.W.D.)	1 year from Oct. 1, 1921.	\$35 per m. (renewable)
" 30.....	Hormisdas Cuerrier.....	"	Lease of ground floor and cellar of 3-storey brick building, No. 1253 Wellington St., Verdun, Que.	Postal station.....	3 years from Jan. 1, 1922.	\$135 per m. (renewable)
" 31.....	The London and British North America Co., Ltd.	"	Lease of rooms 320 to 324 inc., on 3rd floor of "Duncan Building", Vancouver, B.C.	Supt. of dredges and staff (P.W.D.).	2 years from Feb., 1, 1922.	\$1,293 per ann.
Feb. 6.....	Frank Gardner.....	"	Lease of one storey brick building, Main st., Kenora, Ont.	Militia and Defence.....	2 years from Aug., 1, 1921.	\$1,200 per ann. (renewable).
" 7.....	Alex. Leonard Sawle.....	"	Lease of "Oliver Block", Athabasca, Alta.	Post-office.....	1 year from Nov. 9, 1921.	\$15 per m.
" 10.....	Union Bank of Canada.....	"	Lease of 1,050 sq. ft. in "Kerr" or "Union Bank Building", The Pas, Manitoba.....	Mining Records (Interior Dept.).	1 year from Feb. 1, 1922.	\$50 per m.
" 11.....	James Stuart Mackie.....	"	Lease of suites 400 and 403 and rooms 404, 405, 406 and 418 on 4th floor and rooms 500 to 518 inclusive, on 5th floor of "Lancaster Building", Calgary, Alta.	S.C.R. and Mining Land and Yukon Branch, Interior Dept. and Railway Commission.	1½ years from Jan. 1, 1922.	\$14,124.44 per ann.
" 13.....	The General Financial Corporation of Canada.	"	Lease of 1st floor of brick building, No. 225½ 22nd st., Saskatoon, Sask.	Militia and Defence.....	1 year from Jan. 6, 1922.	\$175 per m.
" 14.....	Thomas Duncan McFarlane.	"	Lease of "Imperial Garage", No. 268 Sparks st., Ottawa, Ont.	"	1 year from May 1, 1922.	\$5,340 per ann.
" 16.....	Janet Bannerman.....	"	Lease of 32 ft. in width of 1-storey frame building and partial basement, The Pas, Man.	Post-office.....	5 years from Oct 1, 1921.	\$900 per ann.
" 23.....	La Sauvegarde.....	"	Lease of offices on s.e. cor. on roof of "La Sauvegarde Building", Montreal, Que.	Signal Service (Marine and Fisheries).	1 year from May 1, 1922.	\$475 per ann.

STATEMENT No. 3.—Of properties leased to and from the Department of Public Works of Canada, from April 1, 1921, to March 31, 1922.—Concluded.

Date of Lease	Lessors	Lessees	Description of Property	For what Purpose	Duration of Lease	Rental
1922						
Feb. 23	La Banque d'Hochelega	His Majesty	Lease of 1,415 sq. ft. in building No. 1128, Mount Royal st., and 308 sq. ft. (cellar space), and yard in common, Montreal, Que.	Delorimier postal station.	1 year from May 1, 1922.	\$1,300 per ann.
" 24	Great War Veteran's Association.	"	Lease of 3rd floor of "G.W.V.A. Building", Regina, Sask.	S.C.R. and Pensions.	1 year from Mar. 1, 1922.	\$5,076 per ann. (renewable).
" 24	C.W. Lindsay, Ltd.	"	Lease of room No. 26 on 3rd floor of building, No. 201 and 203, St. John st., Quebec, Que.	Supervisor S.S. Board.	From May 23, 1922 to April 30, 1923.	\$21 per m.
" 28	Northern Trust Co.	"	Lease of room No. 103 on 2nd storey of "Victory Building", Main st., Winnipeg, Man.	Labour Department.	1 year from April 1, 1922.	\$720 per ann.
Mar. 1	The Bank of Toronto	"	Lease of room No. 1, in building on Queen st. east, Toronto, Ont.	Gas and Electricity (Trade and Commerce).	1 year from May 1, 1922.	\$240 per ann.
" 4	The Board of Trustees of Knox Church.	"	Lease of "Old Knox Presbyterian Church", Saskatoon, Sask.	Armoury for 5th Batt. (M. and I.D.).	1 year from Dec. 1, 1921.	\$100 per m. (renewable).
" 6	Canadian Bank of Commerce.	"	Lease of rooms 2 and 3 with use of a room 18 ft. by 16 ft., in "Canadian Bank of Commerce Building", Revelstoke, B.C.	Chief Ranger (Int. Dept.)	1 year from Dec. 16, 1921.	\$40 per m.
" 6	Chas. R. Stephen and Sarah M. Geddes, Trustees of Stephen Estate.	"	Lease of 1st, 2nd, 3rd and 4th floors in "Stephen Building", Ottawa, Ont.	Seed grain staff (Int. Dept.).	5 years from May 1, 1922.	\$7,500 per an.
" 7	Municipality of Collingwood.	"	Lease of 2 rooms in s.e. cor. of "Town Hall", Collingwood, Ont.	Militia and Defence.	1 year from Mar. 15, 1922.	\$120 per ann.
" 8	Belgo-Canadian Realty Co., Ltd.	"	Lease of 2nd floor of "Westmount Commercial Building", Westmount, Que.	58th Westmount Rifles	1 year from May 1, 1922.	\$1,500 per ann.
" 10	R. J. Mackenzie.	"	Lease of "Deer Lodge Hotel", Winnipeg, Man.	Military Hospital.	1 year from May 1, 1922.	\$200 per m.
" 10	Alexander Macdonald.	"	Lease of rooms 8 to 13, inclusive, in "K.W.C. Block", Nelson, B.C.	Dist. Engr. (P.W. Dept.)	1 year from April 1, 1922.	\$720 per ann.
" 11	Alice Ena Warne.	"	Lease of two rooms on 2nd floor of "Warne Building", Digby, N.S.	Insp. of Fisheries	1 year from Nov. 1, 1921.	\$200 per ann.
" 13	The Hudson's Bay Company.	"	Lease 4,721 sq. ft. in "Megaw Building", Vernon, B.C.	S.S. Board	1 year from Mar. 15, 1922.	\$1,500 per ann.
" 13	The Post Publishing Co., Ltd.	"	Lease of room No. 5, in "Post Building", Dorchester st., Sydney, N.S.	Sub-Agent, Marine and Fisheries.	1 year from May 1, 1922.	\$216 per ann.
" 14	Norlite Realty Co., Ltd	"	Lease of "Norlite Building", south side of Wellington st., Ottawa, Ont.	Gov't offices	5 years from Oct. 15, 1922.	\$30,000 per an. (renewable).

" 15.....	Mills Brothers, Ltd.....	"	Lease of room in basement of "Imperial Building", Hamilton, Ont.	Insp. of Taxation.....	From April 1, 1922, to Dec. 1, 1923.	\$62.50 per m. (renewable).
" 17.....	Conrad William Johnson...	"	Lease of space on ground floor of "Hanson Block", Cranbrook, B.C.	Militia and Defence....	2 years from Jan. 15, 1922.	\$30 per m.
" 18.....	Robert Lennox Blackburn.	"	Lease of 3rd floor of "Plaza Building", cor. Sussex and Rideau sts., Ottawa, Ont.	S.C.R.....	1 year from May 1, 1922.	\$3,650 per ann.
" 18.....	James Stuart Mackie.....	"	Lease of offices 610 to 613 inclusive on 6th floor of "Lancaster Building", Calgary, Alta.).	Grain Inspection Branch (Trade and Commerce).	3 years from May 1, 1922.	\$1,116.25 per ann.
" 20.....	Dr. Geo. M. Bowman....	"	Lease of one-storey frame building on lot 4, block 25, Weyburn, Sask.	Militia and Defence....	1 year from June 10, 1922.	\$600 per ann.
" 21.....	Estate of Wm. Ryan Thistle.	"	Lease of store No. 204 on south side of Wellington st., Ottawa, Ont.	Gas and Electricity (T. and C.).	1 year from May 1, 1922.	\$50 per m.
" 23.....	John Alex. Campbell and Miss S. Campbell.	"	Lease of building No. 81 King st., London, Ont.	S.C.R.....	1 year from July 28, 1922.	\$420 per ann.
" 23.....	Wm. George Miller.....	"	Lease of 3 rooms on ground floor of building on Main st., Stellarton, N.S.	Post-office.....	1 year from May 1, 1922.	\$650 per ann.
" 23.....	Wm. Percy Blackmore....	"	Lease of one-storey high new brick building, Princeton, Ont.	"	10 years from Jan. 1, 1922.	\$396 per ann.
" 24.....	Dominion Life Assurance Co.	"	Lease of rooms 502 to 507, inclusive, on 5th floor of "Westman Chambers", Regina, Sask.	S.S. Board.....	1 year from May 1, 1922.	\$1,800 per ann.
" 27.....	L. H. Levasseur, Registered.	"	Lease of "Levasseur Block", Riviere du Loup Station, Que.	Post-office.....	1 year from May 1, 1922.	\$600 per ann.
" 31.....	The Royal Bank of Canada.	"	Lease of basement, 2nd, 3rd, 4th and 5th floors of "Royal Bank Building", on s.w. cor. of Sparks and Metcalfe sts., Ottawa, Ont.	Several Depts. of Federal Administration.	1 year from May 1, 1922.	\$15,050 per ann.

The following leases were received too late for insertion in last year's Annual Report (1920-1921).

1920						
Sept. 21.....	His Majesty.....	The King Suspenders and Neckwear Co.	Lease of 2,500 sq. ft. of floor space in "Henry Building", Toronto, Ont	Private Enterprise.....	3 years and 10 months from Aug. 1, 1921.	\$125 per m.,
Oct. 1.....	Can. Northern Ry. Co....	His Majesty....	Permission to string wire on Co.'s poles between Humboldt and Warman, Sask. (30½ miles of distance).	.....	1 year from Oct. 1, 1920 and thereafter from year to year.	\$5 per mile per wire per ann.
1921						
Mar. 1.....	Canadian National Railways.	Dept. of Public Works.	Sub-lease of shed No. 2, Pier No. 3, outer wharf, Victoria, B.C.	Gov't purposes.....	During pleasure.	\$300 per m.

THE NATIONAL GALLERY OF CANADA

Eric Brown, Director

The past year has been the most important in the history of the National Gallery. Its activities throughout the country have been greater and more fruitful, while in Ottawa the reopening of the galleries, with extended premises and improved arrangements, has given Canada a convincing proof of the benefits of a National Gallery of Art and a promise of still greater good in the future, when the place of art in the community is sufficiently understood to be adequately supported by Parliament and the public at large.

It is with deep regret that the trustees record the death of the Honourable Arthur Boyer, which occurred on January 25, 1922.

Appointed one of the original members of the Advisory Arts Council in 1907, Mr. Boyer served first as a member of that body, and since the passing of the National Gallery Act in 1913, as a trustee of the National Gallery, and it is with a high appreciation of his worth that the trustees desire to record his unfailing devotion to the work of the board for the development of the National Gallery and the furtherance of the cause of art in Canada.

Work on the reconstruction of the National Gallery premises, commenced in 1920, was finally completed in September, 1921, and on the 12th of that month the institution again opened its doors to the public. During the six months that the National Gallery has been open, a total of over 75,000 visitors was recorded.

The following special exhibitions have been held:—

Exhibitions of Recent Accessions—December 20, 1921, to January 31, 1922.

Pictures and sketches by Tom Thomson—February 11 to March 31, 1922.

Engravings by William Blake—February 11 to March 31, 1922.

Modern Colour Prints—February 11 to March 31, 1922.

An important step in the progress of the National Gallery was the establishment of a Department of Prints. The scope in Canada for such a branch is very wide and the time for its development peculiarly opportune, owing to the fact that economic pressure abroad is forcing into the market many famous print collections. Profiting by this readjustment and the westward flow of art treasures, it is hoped to secure for Canada the nucleus of a creditable collection.

The work of caring for the works of art comprising the Canadian War Memorials collection is proceeding as rapidly as facilities will allow. The Graphic Section has been classified and prepared for standard mats. A number of the oil paintings have been framed, where necessary, cleaned and varnished. A few of the larger pictures have been hung in the Senate Chamber and a loan has been made to the Royal Military College, Kingston, of fifteen portraits of Canadian Corps Commanders.

The appropriation made for the National Gallery this year was \$40,000, which was expended as follows:—

FINANCIAL STATEMENT

Appropriation	\$40,000 00	
Accessions		\$21,822 19
Salaries, wages and general maintenance		14,855 99
Customs sales tax		660 87
Catalogues, reproductions and photographs		2,639 27
Unexpended		21 68
	<hr/>	<hr/>
	\$40,000 00	\$40,000 00

SESSIONAL PAPER No. 31

The loan exhibitions of the National Gallery were, by careful management, continued this year as usual in spite of the reopening of the galleries in Ottawa. The following cities received a loan during the year:—

- Halifax, N.S.—Victoria School of Art and Design (14 pictures).
 Montreal, P.Q.—Art Association of Montreal (82 prints).
 Ottawa, Ontario—The Public Schools (142 Medici Prints).
 Toronto, Ontario—The Art Gallery of Toronto (8 pictures).
 Welland, Ontario—Rotary Club (17 pictures).
 Tillsonburg, Ontario—The Public Library (6 pictures).
 Hamilton, Ontario—Art Gallery of Hamilton (13 pictures).
 London, Ontario—Western Fair's Association (10 pictures).
 Sarnia, Ontario—The Public Library (17 pictures).
 Collingwood, Ontario—The Public Library (10 pictures).
 Port Arthur, Ontario—The Public Library (8 pictures).
 Fort William, Ontario—The Public Library (13 pictures).
 Winnipeg, Man.—Winnipeg Art Gallery (14 pictures) (21 pictures).
 Regina, Sask.—Regina College (17 pictures).
 Moose Jaw, Sask.—The Public Library (12 pictures).
 Medicine Hat, Alta.—The Public Library (10 pictures).
 Vancouver, B.C.—B.C. Art League (20 pictures).
 Vancouver Exhibition Association (25 pictures).
 New Westminster, B.C.—Provincial Exhibition (25 pictures).

The following is a list of the accessions made to the collection during the year:—

PURCHASES OF OIL PAINTINGS

Title.	Artist
Coast at Louisburg	William Brymner, R.C.A.
Study of a Head	Alberta Cleland
French Peasant Girl	Berthe Des Clayes
Laurentian Farm	Legh Kilpin
Old Courtyard	Mrs. J. S. MacLean
The Green Hat	Adam Scott
Decorative Panel	Adam Scott
Nonnie	Lilias Torrance Newton
Audrey Buller	R. S. Hewton
The Hilltop	Frank Carmichael
A Quebec Village	A. Y. Jackson, R.C.A.
Early Spring	A. Y. Jackson
In the Dunes	Adrian Stokes, R.A.
The Fire Ranger	F. H. Johnston, A.R.C.A.
Portrait of a Man	Tintoretto (Jacopo Robusti)
Entree du Port de Honfleur	J. B. Jonkind
March	Maurice Cullen, R.C.A.
Schooners Waiting for Cargo, Que.	W. H. Taylor
Village on the Gulf	A. H. Robinson, R.C.A.
In the Laurentians	H. Mabel May, A.R.C.A.
"Ice About," Twillingate, Nfld.	F. H. McGillivray
The Little Sisters	Lilias Torrance Newton

WATER COLOURS AND PASTELS

Ruins of Chateau Bigot	D. E. Grant
(Water colour drawing)	
Time (Water colour)	Charles W. Jefferys, A.R.C.A.
Danseuses à la Barre (Pastel)	H. G. E. Dégas

SCULPTURE

Nocturne	Mario Korbel
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13 GEORGE V, A. 1923

GIFTS

- Eliza Macloghlin (Bronze) Alfred Gilbert, M.V.O.
Presented by Mrs. Eliza Macloghlin,
England.
- Young Woman Reading (Oil) Georges D'Espagnats
Presented by Messrs. Durand-Ruel,
New York.
- "Le Marché de Nice" (Oil) Lucien Seevagen
Presented by the Alliance Française,
Ottawa, Ont.

DIPLOMA WORKS

- The Storm (Bronze Statuette) Walter S. Allward, R.C.A.
- The Convoy (Oil) A. Y. Jackson, R.C.A.
- Indian Summer, Montreal Harbour (Oil) . . Charles W. Simpson, R.C.A.
- Autumn Fluff (decorative panel) (W.
Colour) Robert Holmes, R.C.A.
- Lower St. Lawrence, March (Oil) Albert H. Robinson

PRINTS

The acquisitions for the year by purchase numbered 144 originals and 1,439 reproductions. Eighty-eight originals were presented.